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THE CALCULATION AND PUBLICATION OF A GRID OF LINE-BLANKETED  
MODEL STELLAR ATMOSPHERES

Final Report

Grant NGR 09-015-198

Principal Investigator

Dr. Eugene H. Avrett

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November 1972

Prepared for

National Aeronautics and Space Administration  
Washington, D.C. 20546

Smithsonian Institution  
Astrophysical Observatory  
Cambridge, Massachusetts 02138

This paper represents the final report of research conducted under NASA Grant NGR 09-015-198.

A slightly revised version of this material, by R. L. Kurucz, E. Peytremann, and E. H. Avrett, will be published as a companion volume to the Celescope Catalog of Ultraviolet Stellar Observations.

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## PREFACE

A major goal of astrophysical research is to determine the structure and history of the Galaxy through investigations of the properties of individual stars that vary in age and composition. The luminosity, mass, and elemental abundances, as well as other properties of each star, must be determined in order to locate them in an evolutionary pattern.

One method for determining the flux, gravity, and abundances at the stellar surface is the construction of theoretical stellar atmosphere models that predict the observed energy distribution and detailed stellar spectrum.

Much current research has concentrated on the problem of the equilibrium between the gas and the radiation field and on the inclusion of realistic opacities, which determine how radiation escapes from the star. In the work reported here, a significant gap has been at least partially closed by the inclusion of the opacities for more than one million spectral lines.

The Smithsonian Astrophysical Observatory has been strongly committed to theoretical research in stellar atmospheres for over a decade. This specific project began in 1965 when the availability of large computers made it possible to develop

methods for treating line opacity in extensive detail. In 1966, the first results obtained by the technique reported here were presented in Heidelberg at an International Astronomical Union colloquium on stellar line blanketing. Since then, considerable effort has been invested in developing efficient computer programs and accumulating atomic data on line strengths.

It is appropriate that these models should appear as a companion volume to the Celescope Catalog of Ultraviolet Stellar Observations, since they provide the most realistic available prediction of the ultraviolet flux for many of the early-type stars observed by the Telescope cameras. Yet, this publication represents only a beginning, for subsequent calculations are still necessary in order to determine the effects of variations in elemental abundances.

The models tabulated here range in temperature from 8000 to 50000 K and in log gravity from 2 to 5. Solar abundances and a microturbulent velocity of  $2 \text{ km sec}^{-1}$  have been assumed. The line opacity was included in the form of distribution functions based on a list of 1,760,000 lines obtained from the literature and computed by Kurucz and Peytremann with the help of an atomic structure program written by Dr. Robert D. Cowan. We present tables of models, fluxes, UBV colors, Telescope colors, and bolometric corrections. Included, too, are tables of Balmer line profiles calculated with a program written by Dr. Deane M. Peterson. Also, we compare our models to a number of others published in recent years.

We are grateful to many people for their assistance in this project. We wish to thank Drs. Cowan and Peterson for the use of their computer programs and Dr. William A. Deutschman, Dr. Robert J. Davis, and Dr. Kenneth L. Andrew for useful

discussions and practical assistance. Philip A. Isenberg worked with the spectroscopic data and helped find Slater parameters. Anne H. Kennedy was particularly helpful in running the programs to calculate the line strengths. Philip Harrison assisted in the final phase of this project. Diane M. Hills produced the many graphs of flux distributions, and Rudolf Loeser made the plot showing the distribution functions. In addition, we benefited from a number of technical discussions of our results with Drs. Rudolph E. Schild, David W. Latham, and Peterson.

Finally, we wish to acknowledge the support of a Smithsonian Research Foundation Fellowship (to Kurucz) and an International Fellowship (to Peytremann) sponsored by the European Space Research Organization and the National Aeronautics and Space Administration.

# BLANKETED MODEL ATMOSPHERES FOR EARLY-TYPE STARS

Robert L. Kurucz, Eric Peytremann, and Eugene H. Avrett

## 1. INTRODUCTION

In stellar atmosphere analysis, the surface gravity, effective temperature, and abundances for a star are determined by choosing a model that correctly predicts the observed energy distribution and spectrum. The procedure might be an iterative one requiring the use (or computation) of models for a range of effective temperatures, gravities, and abundances in order to obtain a self-consistent solution. However, until now, there has been a fundamental shortcoming in our ability to calculate realistic models, especially for A stars and later types, because the line opacity has been included in the model calculation only for a small number of lines, or included essentially as a free parameter that is adjusted so that the calculations and observations agree.

Lines affect the comparison between the theoretical models and the observations in two ways. First, a model atmosphere that includes line absorption has a different structure and predicts a different flux distribution from one that considers few or no lines. Consider two model atmospheres that differ only in that one includes the effects of the absorption lines while the other ignores these lines. Assume that both atmospheres have the same effective temperature so that they emit the same total amount

of energy. Then, since the lines absorb energy, the temperature of the blanketed model must be greater than that of the line-free model in the region near continuum optical depth unity in order to produce more energy between the lines and to emit the same total amount of energy as the line-free model. The continuum level in regions of high flux must rise to keep the total energy constant. In frequency regions where the flux depends exponentially on temperature (i. e., the Balmer continuum for late B stars and cooler and the Lyman continuum for hotter stars), the temperature increase has a greater effect. Since the temperature rise occurs only in the deeper layers of the atmosphere, there can be a considerable difference in the temperature gradient between the two models. This can result in significant differences in the ionization structure, molecular-equilibrium structure, and line profiles between blanketed and line-free models.

Second, when a great many lines are present in the observed flux, it is difficult to know how to compare the observations with the flux predicted by a line-free model. Often, the instrumental resolution is low enough to blend lines and continuum together, but even at high resolution the lines themselves can blend together so that there is no true continuum. Ideally, we should calculate a detailed spectrum including all the lines and fold it through an instrumental profile in order to obtain results that can be compared to observations.

Our approach to this problem is to use as complete a line list as possible for computing a statistical representation of the line opacity in terms of distribution functions. The greatest advantage of the distribution-function method is that it can be used to predict reliably differential changes in observational properties with abundances,

microturbulent velocity, gravity, and effective temperature. We hope to continue these model calculations in the future for a range of abundances and microturbulences in order to determine these differential effects.

We had originally planned to begin this project by computing a solar model for which the best observational comparisons can be made. After working on atomic lines, we decided that sufficient data were available to carry out the model calculation for the early-type stars presented here. We are currently developing line lists for the diatomic molecules that are needed to make the solar comparison. Then we hope to extend the model calculations to later spectral types.

In the following two sections, we describe the methods used to obtain the line list and to compute the distribution functions. Our model atmosphere calculations are described in Section 4, and in Section 5 we compare our models to several others published in recent years. Our numerical results are presented in Tables 1 through 4.

## 2. LINE STRENGTHS

### 2.1 Background

The first attempt to include the effects of a large number of lines in a model atmosphere calculation was that of Strom and Kurucz (1966), in which 30,000 lines were used to construct crude distribution functions for a model of Procyon (6500 K). Most of the lines were from Corliss and Bozman (1962), with many iron-group lines from papers by Corliss and by Warner (e.g., Corliss and Warner, 1965; Corliss, 1965; Warner, 1967). Peytremann (1970) has calculated a grid of blanketed models using approximately the same lines in a Monte Carlo treatment. These investigations and subsequent ones have shown that the available line lists are seriously incomplete and do not predict observed blanketing without considerable augmentation.

There has been little improvement in this situation over the last five years. The most prominent additional work for our purposes appears in two National Bureau of Standards publications – hydrogen through neon by Wiese, Smith, and Glennon (1966) and sodium through calcium by Wiese, Smith, and Miles (1969) – but these compilations are limited to a relatively small number of lines for which the data are "reliable." Warner (1968 and subsequent papers) has done large-scale calculations of one- and two-electron spectra for use in abundance analyses, but he has not extended this work to the high-quantum-number upper levels that form the series of lines that lead up to the absorption edges in the ultraviolet. In the meantime, many of the old iron group and the Corliss and Bozman measurements have been discredited (Takens, 1970).

Better experimental techniques are now available, so that some of the iron gf values have been reduced by as much as a factor of 10 (see Huber and Parkinson, 1972, for references). Even so, the 10-year-old Corliss and Bozman list remains the largest source for the heavier elements.

In blanketing calculations, it is important to have as complete a line list as possible. The temperature structure in a heavily blanketed stellar atmosphere is determined more by the amount of space between the lines where the flux can escape than by the lines themselves. Thus, if a large number of weak lines are included, they can fill in the spaces and make a considerable difference in the flux that emerges.

## 2.2 Calculation of gf Values

Here we outline our procedure for obtaining a line list to use in calculating distribution functions. Details of this work will be published elsewhere.

In 1970, Kurucz began a limited project to fill in the missing ultraviolet lines for light elements that could be computed easily. Programs were written to calculate scaled Thomas-Fermi-Dirac wavefunctions, following Warner (1968), and to perform least-squares fits to energy levels to determine Slater parameters and eigenvectors. Kurucz and Peytremann began to collaborate in 1971 and were able to borrow the program RCGM5 written by Cowan (1968, subsequently revised to include configuration interaction). When Slater parameters and radial integrals are given, this program calculates electrostatic and spin-orbit matrices, eigenvalues, LS transition arrays, and finally gf values. Since this program was available, Kurucz and Peytremann decided to calculate as many lines as practical for use in blanketed



models. Kurucz had collected almost all the recent papers published on atomic spectroscopy and line strengths. He used these to make lists of all known energy levels through the fifth and sixth stages of ionization. Next, these energy levels were used to calculate scaled Thomas-Fermi-Dirac wavefunctions for elements up through calcium and all the possible transition integrals. Peytremann modified Cowan's program to find Slater parameters through least-squares fits to the observed energy levels and then used the program to predict unobserved energy levels and wavelengths and to calculate gf values for all possible lines between configurations for which observed energy levels were available. The result was 150,000 lines in the isoelectronic sequences for boron ( $Z=5$ ) through calcium ( $Z=20$ ) for the first five or six stages of ionization. The vast majority of these lines belong to neutral and singly ionized atoms.

Kurucz worked on the iron group through nickel, dividing Cowan's program into subprograms for calculating electrostatic and spin-orbit matrices and LS transition arrays, and then revising these subprograms for the purpose of handling large arrays. (Neutral manganese 4p configurations require  $169 \times 169$  matrices.) He also wrote a least-squares program for the Slater parameters and programs to find eigenvectors and gf values. Fortunately, Racah and Shadmi (1959), Shadmi (1962), and Roth (1968 and subsequent papers) had published Slater parameters for many of the configurations, so the problem was tractable in a few months. Wavefunctions were computed for each configuration by using the least-squares average energy. The result was 1,600,000 lines in the isoelectronic sequences for scandium ( $Z=21$ ) through nickel ( $Z=28$ ) for the first five stages of ionization. The majority of these lines belong to neutral and singly ionized atoms.

It is difficult to determine the accuracy of our calculated data until we can perform detailed spectral comparisons. However, we can make two definite statements. First, for elements up through calcium, our calculations are similar to or better than most of those previously available. Second, a detailed comparison of our calculations for the Fe I  $(d + s)^8 - (d + s)^7 4p$  transition array with laboratory measurements of Huber and Parkinson (1972) indicates less scatter between our calculations and their measurements than between their measurements and those of several other experiments as shown in their paper.

To these calculated gf values, we have added all the previously published data that we had available for the He I and II, lithium, and beryllium sequences and for elements heavier than nickel ( $Z = 28$ ). The total comes to 1,760,000 lines. These line data will be made generally available, but it should be noted that 1) many of the lines have predicted wavelengths that are not reliable enough for use in calculating detailed spectra; 2) the line list is incomplete for heavier, normally low-abundance elements, so further work is necessary before the list is suitable for work on Am and Ap stars; 3) the data are on 12 magnetic tapes, and considerable effort is required to make a reliable copy. In the near future, we hope to have a more complete line list and to have tested it by computing spectra. We also plan to produce a compressed list of 200,000 to 400,000 lines on one tape for more general use.

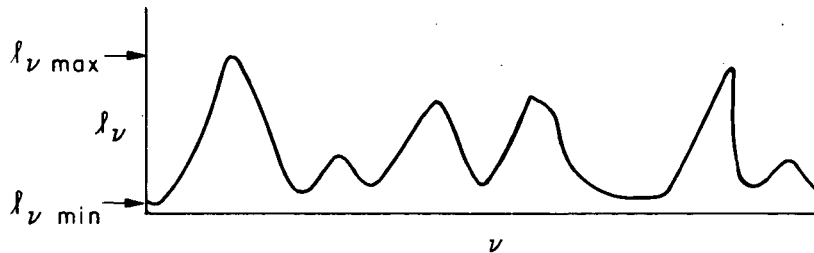
### 3. LINE-ABSORPTION DISTRIBUTION FUNCTIONS

We will first give a general description of line-absorption distribution functions and then describe the way these functions are calculated. Since this volume is intended mainly for the presentation of models, we will reserve detailed discussion of distribution functions and their properties for later publication.

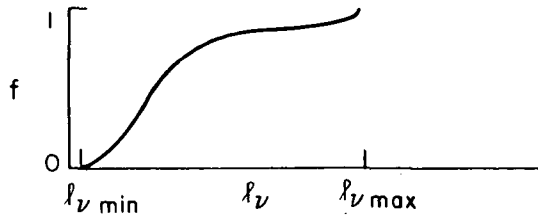
#### 3.1 General Description

We do not need to know the opacity explicitly at every frequency in order to calculate a model atmosphere, because the structure of the atmosphere is determined by integrals over the radiation field that depend not so much on the details of the spectrum, but more on its average properties. If only continuum opacities are considered, the integrals can be evaluated accurately by sampling at relatively few points. By adopting line-absorption distribution functions, we obtain the same simplification when line opacities are included.

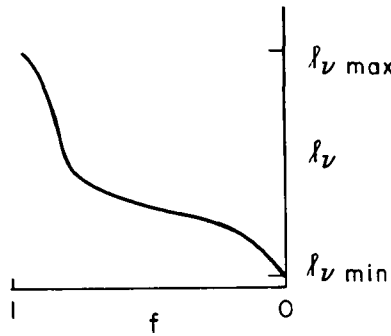
The line-absorption coefficient is a function of abundance, microturbulent velocity, temperature, gas pressure (or electron number), and frequency. If we fix all but the last of these parameters while varying the frequency (or wavelength, or wave-number) over some interval, we might find a line-absorption coefficient like the following:



The distribution function is the fraction of the interval with opacity  $\ell_\nu$  or less:

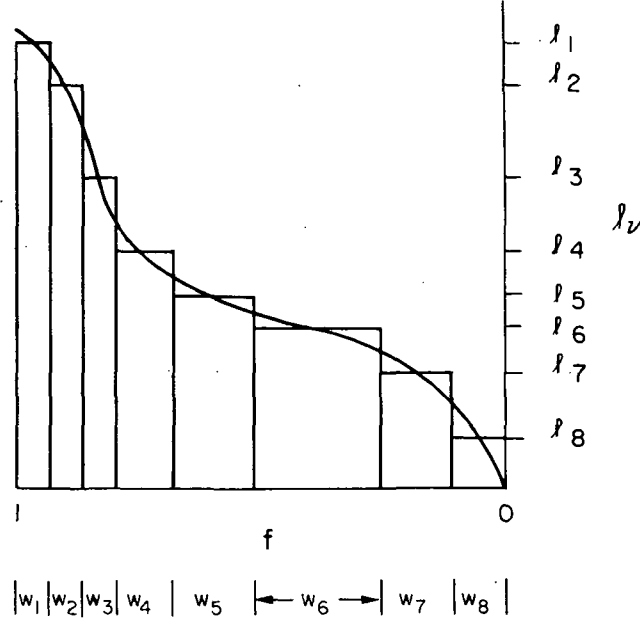


Since the distribution function  $f(\ell_\nu)$  is monotonic, the inverse relation  $\ell_\nu(f)$  is well defined with end points  $\ell_\nu(1) = \ell_\nu \text{ max}$  and  $\ell_\nu(0) = \ell_\nu \text{ min}$ .



By varying the various parameters while keeping the same interval, we can determine the dependence of the distribution function on temperature, gas pressure, abundances, and microturbulence.

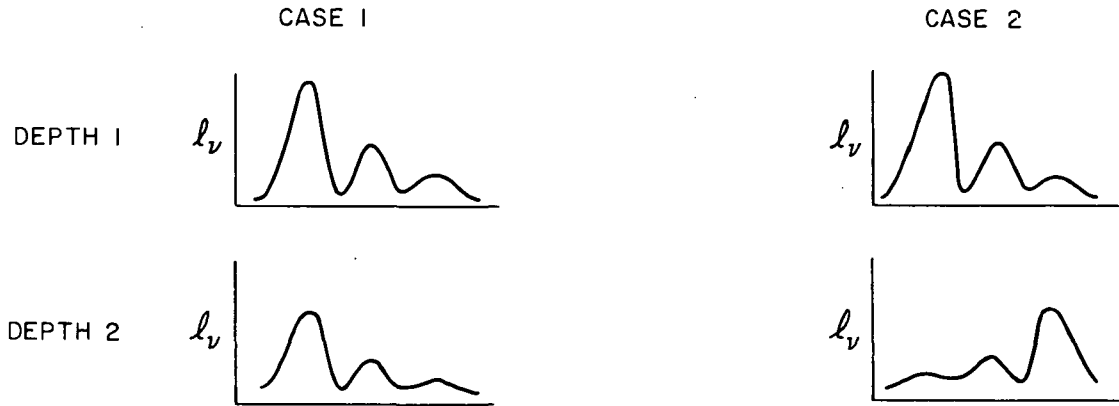
Computationally, we can represent the distribution function for an interval by a step function so that integrals over  $f$  are transformed into sums over the width of the steps:



The number and width  $w$  of the steps are chosen empirically such that the results are as accurate as possible, given a reasonable amount of computer time. In computing a model, for any frequency falling in the interval, the line opacity is presented as a sequence of steps  $\ell_i$ , each with an accompanying  $w_i$ . The total optical depth  $\tau_\nu(\ell_i)$  (including continuous opacities), the source function  $S_\nu(\ell_i)$ , the mean intensity  $J_\nu(\ell_i)$ , and the flux  $H_\nu(\ell_i)$  are computed for each step, assuming that the line source function is the Planck function  $B_\nu$ . The number of steps and the  $w_i$ 's for an interval must be the same for all temperatures and pressures in order for the optical depth to be defined as an integral of  $\ell_i$  over depth. Frequency integrals required for the model calculation are evaluated as sums weighted by the widths of the steps of the distribution function,

$$I = \int \sum_{i=1}^n w_i I_\nu(\ell_i) d\nu \quad (1)$$

In representing line opacity by distribution functions, we make two implicit physical assumptions. The first is that the absorption-coefficient spectrum has the same relative shape at all depths in the atmosphere where line opacity is important, as shown in Case 1 below:



These two cases have identical distribution functions at each depth. In Case 2, the distribution function predicts the wrong optical depths since it assumes that the highest opacities always occur at the same frequencies. The only way to investigate this effect is to compare distribution-function calculations to explicit line calculations. For example, see Carbon's (1972) discussion of distribution functions in his treatment of molecular opacity.

The second assumption is that either lines of different strengths are uniformly distributed throughout the interval or the continuum source function and opacity do not vary radically over the frequency interval to which the distribution function applies, so that it makes no difference where in the interval the lines appear. If the interval for the distribution function is chosen such that strong opacity discontinuities are avoided, we obtain reasonably accurate results when the width of the interval is such that  $\Delta\nu/\nu \lesssim 5$  to 10%.

### 3.2 Distribution Functions for the Present Models

Owing to time and budgetary constraints, we have limited our calculations to one set of abundances and one microturbulence. We have chosen solar abundances and  $2 \text{ km sec}^{-1}$  as the most representative values. Obviously, the absorption coefficient would increase for higher values of abundance or microturbulence and decrease for lower values. We have adopted the abundances compiled by Withbroe (1971). Abundances not known for the sun were taken from Allen (1963). We assume 0.9 hydrogen and 0.1 helium by number, and the following logarithmic abundances of the other elements relative to the total:

Li	-11.45	Be	-10.99	B	-9.25	C	-3.48	N	-3.99	O	-3.22	F	-7.49	Ne	-4.60	Na	-5.81	Mg	-4.51
Al	-5.65	Si	-4.50	P	-6.62	S	-4.84	Cl	-6.40	Ar	-5.40	K	-7.00	Ca	-5.72	Sc	-8.98	Ti	-7.31
V	-7.95	Cr	-6.35	Mn	-6.85	Fe	-4.65	Co	-7.55	Ni	-5.77	Cu	-7.60	Zn	-7.63	Ga	-9.21	Ge	-8.73
As	-9.70	Se	-8.80	Br	-9.40	Kr	-8.80	Rb	-9.42	Sr	-9.23	Y	-10.43	Zr	-9.63	Nb	-9.75	Mo	-10.15
Tc	-20.00	Ru	-10.48	Rh	-10.50	Pd	-10.48	Ag	-11.38	Cd	-10.08	In	-10.34	Sn	-10.34	Sb	-11.30	Te	-10.00
I	-10.60	Xe	-10.00	Cs	-10.26	Ba	-10.25	La	-10.24	Ce	-10.41	Pr	-10.42	Nd	-10.23	Pm	-20.00	Sm	-10.39
Eu	-11.56	Gd	-10.93	Tb	-11.60	Dy	-10.94	Ho	-11.50	Er	-11.29	Tm	-11.62	Yb	-11.24	Lu	-11.21	Hf	-11.40
Ta	-11.70	W	-9.48	Re	-11.40	Os	-11.30	Ir	-9.84	Pt	-10.40	Au	-11.73	Hg	-9.05	Tl	-11.85	Pb	-10.18
Bi	-11.25	Po	-20.00	At	-20.00	Rn	-20.00	Fr	-20.00	Ra	-20.00	Ac	-20.00	Th	-11.23	Pa	-20.00	U	-11.45
Np	-20.00	Pu	-20.00	Am	-20.00	Cm	-20.00	Bk	-20.00	Cf	-20.00	Es	-20.00						

After scrutiny of previous models, we decided to tabulate the distribution functions for the temperatures and pressures given below. The high-temperature, low-pressure corner of the table is not represented in stars of our temperature classes. The temperature spacing and range we have adopted preclude the use of these distribution functions for later spectral types. In any case, distribution functions for later type stars will have to be recalculated with diatomic molecules added to the line list.

		log P								
		-2	-1	0	1	2	3	4	5	6
log T	3.7	x	x	x	x	x	x	x	x	
	3.8	x	x	x	x	x	x	x	x	
	3.9	x	x	x	x	x	x	x	x	
	4.0	x	x	x	x	x	x	x	x	
	4.1	x	x	x	x	x	x	x	x	
	4.2	x	x	x	x	x	x	x	x	
	4.3	x	x	x	x	x	x	x	x	
	4.4		x	x	x	x	x	x	x	
	4.5			x	x	x	x	x	x	
	4.6				x	x	x	x	x	
	4.7					x	x	x	x	
	4.8						x	x	x	x
	4.9							x	x	x
	5.0								x	x

We divided the spectrum into small wavelength intervals with the following boundaries (in nanometers):

22.79409	48.	95.	178.	322.	550.
23.65221	50.43022	100.	188.	332.	570.
25.00744	52.5	105.	197.84471	342.20154	590.
26.	55.5	109.99945	205.14686	354.	620.
27.	57.41	115.	215.	364.70552	650.
28.5	60.	120.	225.	375.	680.
30.	62.5	123.90168	235.	385.	710.
31.7	65.53786	130.	245.	395.	740.
33.5	68.8	135.	251.38152	410.	770.
35.25	72.24011	140.	260.10108	430.	800.
37.	75.	144.40176	272.	450.	820.58743
39.	79.	152.00002	282.	470.	850.
41.	83.	157.5	292.	490.	
43.	87.	162.15071	302.	510.	
45.5	91.17638	167.67209	312.20255	530.	



Many of these wavelengths represent absorption edges. The intervals in this table were chosen to give wavelength resolution in the surface flux adequate for computing broad-band colors. Wider intervals could have been chosen for the model calculation itself. We have also calculated distribution functions down to 10.0 nm, but we did not use them in the model calculation. For wavelengths longer than 850 nm, we took the distribution functions for 800 to 820 nm, which are adequate for hot models with little infrared flux.

We selected line data for each interval slightly beyond both ends to be sure to pick up the wings of lines in neighboring intervals. There were between 15,000 and 30,000 lines per interval above the Lyman limit, with a falling off of the number in the Lyman continuum due to a shortage of spectral information on multiply ionized atoms.

For each interval, we calculated the total absorption coefficient at points evenly spaced in wavelength such that  $\Delta\lambda/\lambda_{\text{center}}$  is equal to  $2.5\text{E-}6$ , where  $\lambda_{\text{center}}$  is the center of the interval. This spacing produced several points per doppler width in the Voigt profile of each line. To save time, we used a minimum cutoff of one-thousandth of the continuum opacity to limit the spread of the line wings. The wing opacity is due to radiative, van der Waals, and Stark broadening, which are approximated as follows in the present calculation:

A. The radiative damping constant is assumed equal to the classical damping constant:

$$\Gamma_R = 2.223\text{E}13/\lambda_{\text{center}}^2 \text{ (in sec}^{-1}\text{, } \lambda \text{ in nanometers)} \quad (2)$$

(see the discussion by Peytremann, 1972).

B. The van der Waals damping constant is approximated by

$$\Gamma_W = \frac{n_{\text{eff}}^2}{z_{\text{eff}}} 17 \left( \frac{8kT}{\pi M} \right)^{0.3} \left[ (1.61\text{E-}33)^{0.4} N_H + \left( \frac{1}{4} \right)^{0.3} (0.50\text{E-}33)^{0.4} N_{\text{He}} \right] \quad (\text{sec}^{-1}) \quad (3)$$

where in the usual hydrogenic expressions  $\left[ (n_{\text{eff}}^2/z_{\text{eff}})^2 \right]^{0.4}$  has been replaced by  $n_{\text{eff}}^2/z_{\text{eff}}$  and the mass has not been reduced. Here,  $n_{\text{eff}}$  is the effective quantum number of the upper energy level,  $z_{\text{eff}}$  is the effective charge, and  $N_H$  and  $N_{\text{He}}$  are hydrogen and helium number densities. This expression is probably an underestimate, since multiplicative factors of 2 to 6 usually must be introduced to make calculated damping constants agree with observations.

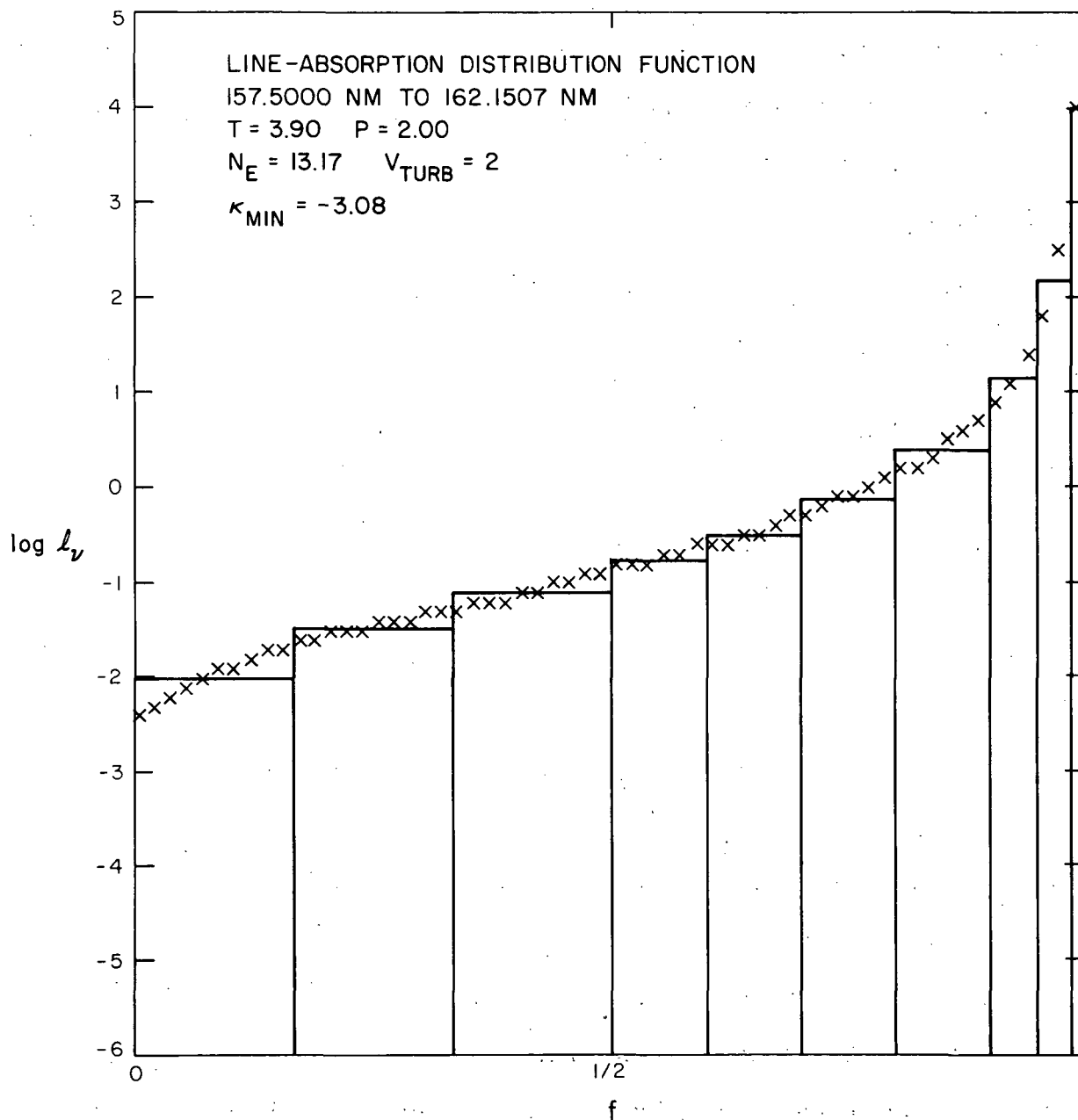
C. The Stark damping constant is a fit by Peytremann to detailed calculations by Sahal-Br       and Segr   (1970):

$$\Gamma_S = 1.\text{E-}8 n_{\text{eff}}^5 N_e \quad (\text{sec}^{-1}) \quad (4)$$

Hydrogen lines are added separately to the total line-absorption coefficient by using the approximate Stark-profile algorithm found in subroutines HLINOP and STARK of the model atmosphere program ATLAS (Kurucz, 1970).

After the total line-absorption coefficient has been calculated for every wavelength point in the region, the fraction of the total number of points that fall below each one-tenth decade in opacity is determined. This distribution function is interpolated to yield the opacity at 60 evenly spaced points ( $f = 1/120$  to  $119/120$ ), forming a 60-step histogram, which is saved for later processing. (Sixty steps were chosen because they can be plotted on one computer page, as shown below.) Figure 1 is a plot of the distribution functions for all 87 temperature-pressure points for the interval 115 to 120 nm.

In practice, fewer than 60 steps are required to represent the line opacity adequately, so several steps are averaged together to form wider ones. A table of the resulting step functions is written on tape for each interval for use in ATLAS. For this grid we have taken 10 steps: 10/60, 10/60, 10/60, 6/60, 6/60, 6/60, 6/60, 3/60, 2/60, and 1/60, as illustrated:



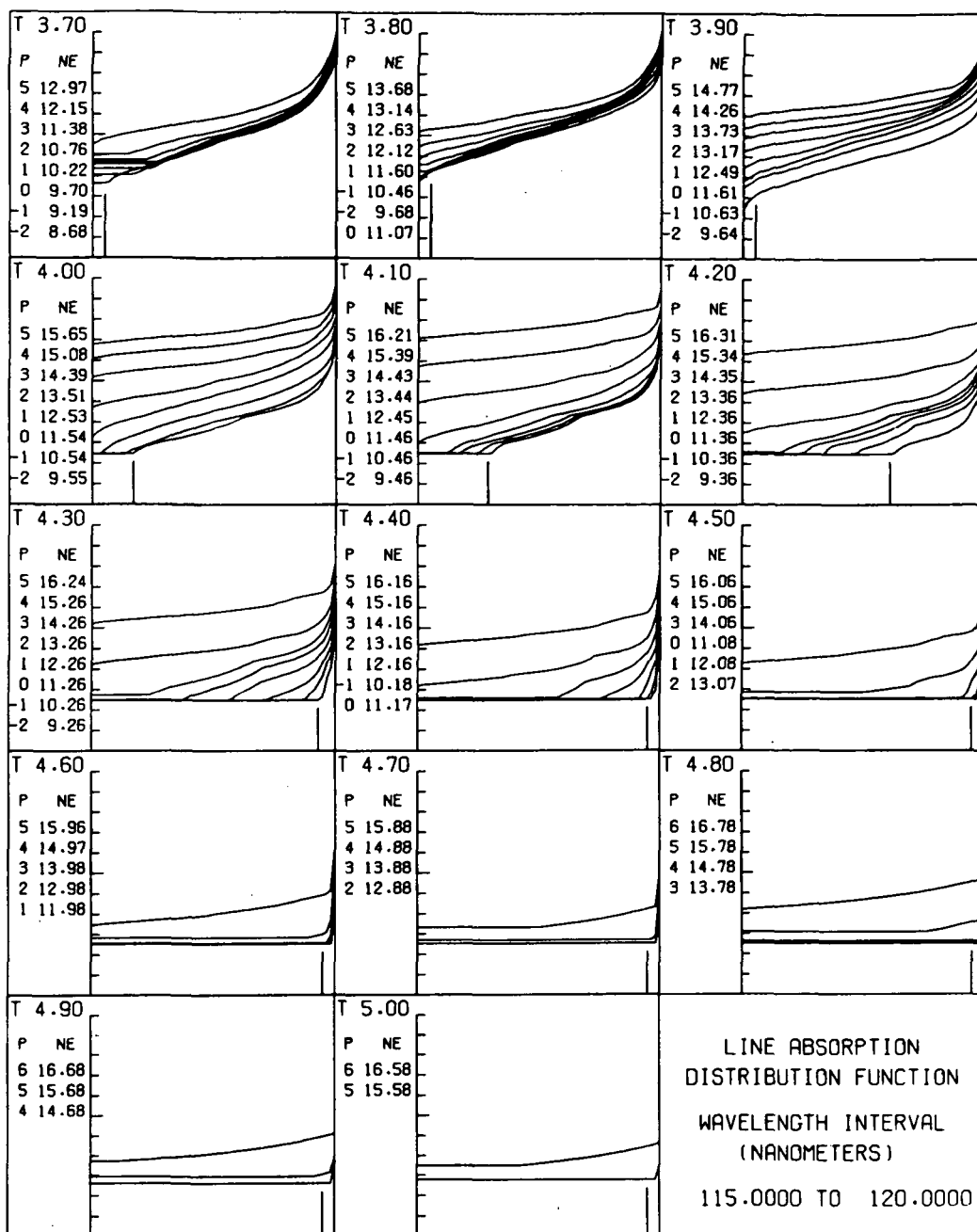


Figure 1. A complete set of distribution functions calculated for the interval 115 to 120 nm. The ordinate measures the log mass absorption coefficient from -6 to 5. The log pressure and log electron-number labels for each curve are given in the order of the curves at the vertical mark on the abscissa. A horizontal minimum in a curve indicates one-thousandth of the continuum opacity.

For simplicity, we have used the same step widths for every interval, but by examining the distribution functions in detail, it would be possible to eliminate some of the steps, especially in the visible, where there is not much line opacity.

## 4. THE MODELS

### 4.1 General Procedure

The models were calculated using ATLAS (Kurucz, 1970). Except for line opacities, the classical assumptions were made of hydrostatic equilibrium, plane-parallel geometry, radiative equilibrium, and local thermodynamic equilibrium (LTE). The only addition to the program is subroutine LINOP, which reads the tape of line-opacity steps and weights described in the preceding section and interpolates the tables to find the line opacity at the temperature and pressure points required in the course of the model calculation.

The abundances used have been listed at the beginning of Section 3.2. We included the continuous opacities H I and II, He I-III, C I-IV, N II-V, O II-VI, Ne I-VI, Mg I, Al I, Si I,  $H_2^+$ ,  $H^-$ , H Rayleigh scattering, and electron scattering. Scattering is included in the source-function determination. Convective flux was calculated but not included in the temperature correction, because it is insignificant except for the (8000, 4.5) and (8000, 4.0) models. Even in these models, convection plays only a minor role in comparison to the blanketing effect. Hence, convection was not included.

The wavelengths, in nanometers, used in the frequency integration were chosen to be near the centers of the distribution-function intervals and are given below:

23.2	58.7	137.5	297.0	580.0
24.3	61.2	142.2	307.0	605.0
25.5	63.4	148.2	317.0	635.0
26.5	67.1	154.7	327.0	665.0
27.7	70.5	159.8	337.0	695.0
29.2	73.6	164.9	348.0	725.0
30.8	77.0	173.0	360.0	755.0
32.6	81.0	183.0	370.0	785.0
34.4	85.0	193.0	380.0	810.0
36.1	89.0	201.5	390.0	835.0
38.0	93.0	210.0	400.0	900.0
40.0	97.5	220.0	420.0	1000.0
42.0	102.5	230.0	440.0	1200.0
44.2	107.5	240.0	460.0	1800.0
46.7	112.5	248.2	480.0	2700.0
49.2	117.5	255.7	500.0	4000.0
51.5	122.0	266.0	520.0	5000.0
54.0	127.0	277.0	540.0	6500.0
56.5	132.5	287.0	560.0	

Integrals over frequency were performed trapezoidally, assuming zero flux at zero frequency and at the frequency corresponding to 22.4 nm. For models cooler than 25000 K, integration was stopped at 51.5 nm, assuming zero flux at 49.2 nm.

A few test runs were made to demonstrate that the models could be converged to arbitrarily small errors in the flux and flux derivative, and therefore to arbitrarily small corrections to the temperature. Then we adopted as a reasonable standard of

accuracy an error of a few tenths of a percent in the flux and generally less than 1% in the flux derivative, except at the first few points near the surface, where the temperature gradient is very steep (as a result of our LTE assumption). For a few of the hotter models, there are greater errors at the deepest two optical depths because of very high acceleration due to radiation pressure and because we did not carry the frequency integration far enough to the ultraviolet for extremely high temperatures. In all cases, the remaining temperature corrections are not significant.

#### 4.2 Calculated Functions of Depth

In Table 1 of this volume we present temperature distributions for 92 models for the effective temperatures and surface gravities indicated below:

		log g						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
T <sub>eff</sub>	8000	x	x	x	x	x	x	
	8500	x	x	x	x	x	x	
	9000	x	x	x	x	x	x	
	9500	x	x	x	x	x	x	
	10000	x	x	x	x	x	x	
	11000	x	x	x	x	x	x	
	12000	x	x	x	x	x	x	
	13000	x	x	x	x	x	x	
	14000	x	x	x	x	x	x	
	15000	x	x	x	x	x	x	
	16000	x	x	x	x	x	x	
	18000			x	x	x	x	
	20000			x	x	x	x	
	25000				x	x	x	x
	30000				x	x	x	x
	35000				x	x	x	x
	40000						x	x
	45000						x	x
	50000						x	x



As stated earlier, solar abundances and microturbulence of  $2 \text{ km sec}^{-1}$  have been assumed for all the models.

The independent depth variable listed first in the table is the Rosseland optical depth  $\tau_{\text{Ross}}$ . Although ATLAS uses the independent variable

$$\text{mass} = \int_0^x \rho(x) dx, \quad (5)$$

the mass scale varies greatly with gravity, so we display the models as functions of  $\tau_{\text{Ross}}$  in order to adopt one unique set of depth values for convenience in tabulation. We have chosen 40 depths from  $\log \tau_{\text{Ross}} = -4.5$  to  $2.0$  in steps of  $1/6$ . In some models, the last calculated  $\tau_{\text{Ross}}$  was less than 100 but always greater than 90. In those cases, the tabulated values for  $\tau_{\text{Ross}} = 100$  have been extrapolated.

For each of the 40 depths, we give, in addition to the above mass variable, the geometrical depth measured in kilometers from the outermost point, the temperature  $T$ , the gas pressure  $P$ , the density  $\rho$ , and the atomic and electron number densities  $n_A$  and  $n_e$ . Also we list the values of  $\text{ion(H)}$  and  $\text{ion(He)}$ , which represent the number of electrons produced per hydrogen atom and per helium atom. Thus,  $\text{ion(H)}$  varies from 0 to 1, while  $\text{ion(He)}$  varies from 0 to 2, thereby indicating the degree of ionization. Finally, we list  $\log g_{\text{rad}}$ , where  $g_{\text{rad}}$  is the acceleration due to radiation pressure, and  $\kappa_{\text{Ross}}$ , the Rosseland mass absorption coefficient. Except for geometrical depth  $x$ , which is in kilometers, all other quantities are given in cgs units.

The listed depth scale includes values in the very shallow layers of the atmosphere, where our assumption of LTE is most likely incorrect. We have included these small optical depths, however, in order to ensure a proper numerical treatment of the transfer problem near the surface. We discuss non-LTE effects very briefly in our comparison with other models in Section 5.

### 4.3 The Emergent Flux

In ATLAS the fluxes  $H_\nu$  are calculated and integrated over frequency, but in our tables we list  $F_\nu = 4H_\nu$ , defined as

$$F_\nu = 2 \int_{-1}^{+1} I_\nu \mu \, d\mu \quad . \quad (6)$$

The total flux defined in this way has the property

$$F = \int_0^\infty F_\nu \, d\nu = \frac{\sigma}{\pi} T_{\text{eff}}^4 \quad , \quad (7)$$

which is also satisfied by the Planck function  $B_\nu(T_{\text{eff}})$ , i. e. ,

$$\int_0^\infty B_\nu(T_{\text{eff}}) \, d\nu = \frac{\sigma}{\pi} T_{\text{eff}}^4 \quad . \quad (8)$$

The monochromatic and total physical fluxes are given by  $\mathcal{F}_\nu = \pi F_\nu$  and  $\mathcal{F} = \pi F$ . The luminosity of a star with spherical symmetry and radius  $R_*$  is

$$L = 4\pi R_*^2 \mathcal{F}, \quad (9)$$

while the flux per unit area at distance  $d$  (from the center of the star) is

$$f = \left( \frac{R_*}{d} \right)^2 \mathcal{F}. \quad (10)$$

Since many observations are made on a wavelength scale, we also list values of

$$F_\lambda = \frac{\nu}{\lambda} F_\nu. \quad (11)$$

The flux per unit wavelength also has the integrated value

$$F = \int_0^\infty F_\lambda d\lambda = \frac{\sigma}{\pi} T_{\text{eff}}^4. \quad (12)$$

When using our fluxes to interpret observations, the reader must keep in mind that our fluxes are averages. In using distribution functions to represent the opacity, we average out, in frequency space, the properties of the radiation field over a band-pass comparable to the width of the intervals used in the calculation of the distribution function as listed in Section 3. These widths are approximately 5 nm at 150 nm, 10 nm at 300 nm, and 20 nm at 500 nm. The frequencies at which the radiation field is evaluated were chosen to be near the centers of the distribution-function

intervals, so  $F_{\nu_j}$  is approximately the average over the interval  $[(\nu_{j-1} + \nu_j)/2, (\nu_j + \nu_{j+1})/2]$ . Since the frequencies were chosen relatively close together, we can just as well consider  $F_{\lambda_j}$  to be an approximate average over the interval  $[(\lambda_{j-1} + \lambda_j)/2, (\lambda_j + \lambda_{j+1})/2]$ .

In Table 2 of this volume, we list wavelength  $\lambda$  ( $\mu\text{m}$ ), reciprocal wavelength  $1/\lambda$  ( $\mu\text{m}$ ), and frequency  $\nu$  (Hz) and tabulate for each model the flux per unit wavelength  $F_\lambda$  in  $\text{ergs cm}^{-2} \text{sec}^{-1} \mu\text{m}^{-1}$  and its magnitude

$$M_\lambda = -2.5 \log F_\lambda, \quad (13)$$

along with the flux per unit frequency  $F_\nu$  in  $\text{ergs cm}^{-2} \text{sec}^{-1} \text{Hz}^{-1}$  and its magnitude

$$M_\nu = -2.5 \log F_\nu. \quad (14)$$

Also, we include graphs of  $\log F_\lambda$  and  $M_\lambda$  plotted against  $\lambda$  in the range  $\lambda \leq 0.7 \mu\text{m}$  and of  $\log F_\nu$  and  $M_\nu$  plotted against  $1/\lambda$  (and  $\nu$ ) in the range  $1/\lambda \leq 11.2 \mu\text{m}^{-1}$ . In the tables and graphs, we have used microns  $\mu$  as an abbreviation for micrometers  $\mu\text{m}$ .

Since these plots do not show the Lyman continuum, we also give in Figure 2 a representative plot of the hotter models over a larger frequency range to show the effects of changes in gravity and effective temperature. (Note the interesting result at 40000 K, where ionization of He I in the low-gravity star allows more flux to emerge in the He I continuum and causes a reduction of the flux in the visible and Balmer continuum.)

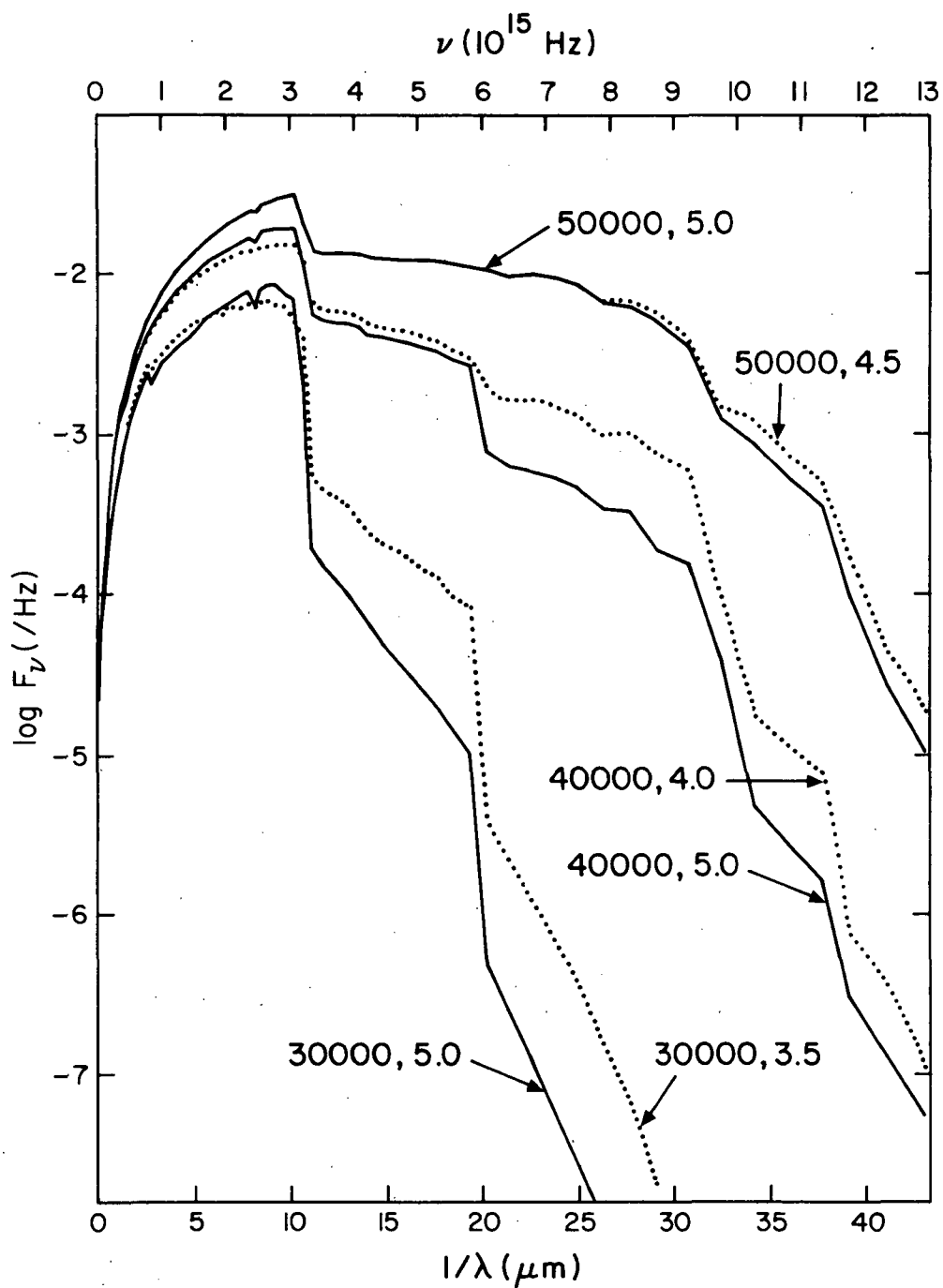


Figure 2. A representative plot of the hotter models showing the effects of changes in effective temperature and gravity. The models plotted are (30000, 5), (30000, 3.5), (40000, 5), (40000, 4), (50000, 5), and (50000, 4.5).

We also show several figures that give an overall impression of the grid. Figure 3 shows the change in the flux distribution for the  $\log g = 4$  models as the effective temperature increases from 8000 to 20000 K. Figure 4 shows the corresponding plot on a wavelength scale with UBV, ubvy, and Celescope filters indicated. Figures 5 through 9 show gravity effects for the representative effective temperatures 8000, 9000, 10000, 14000, and 25000 K.

#### 4.4 Broad-Band Magnitudes and Colors

Because our fluxes are averaged over rather large wavelength intervals, it is natural to address ourselves to those observable quantities of low spectral resolution, namely, broad-band photometric quantities. The systems considered here are the UBV and Celescope ultraviolet systems.

The magnitude  $m_i$  that corresponds to a particular filter or bandpass  $i$  is defined in general by

$$m_i = -2.5 \log E_i + \text{constant}. \quad (15)$$

The quantity  $E_i$  is usually defined in either of two ways: First, we can write

$$E_i = \int_{\alpha_i}^{\beta_i} F_{\lambda} S_i(\lambda) d\lambda \quad (16)$$

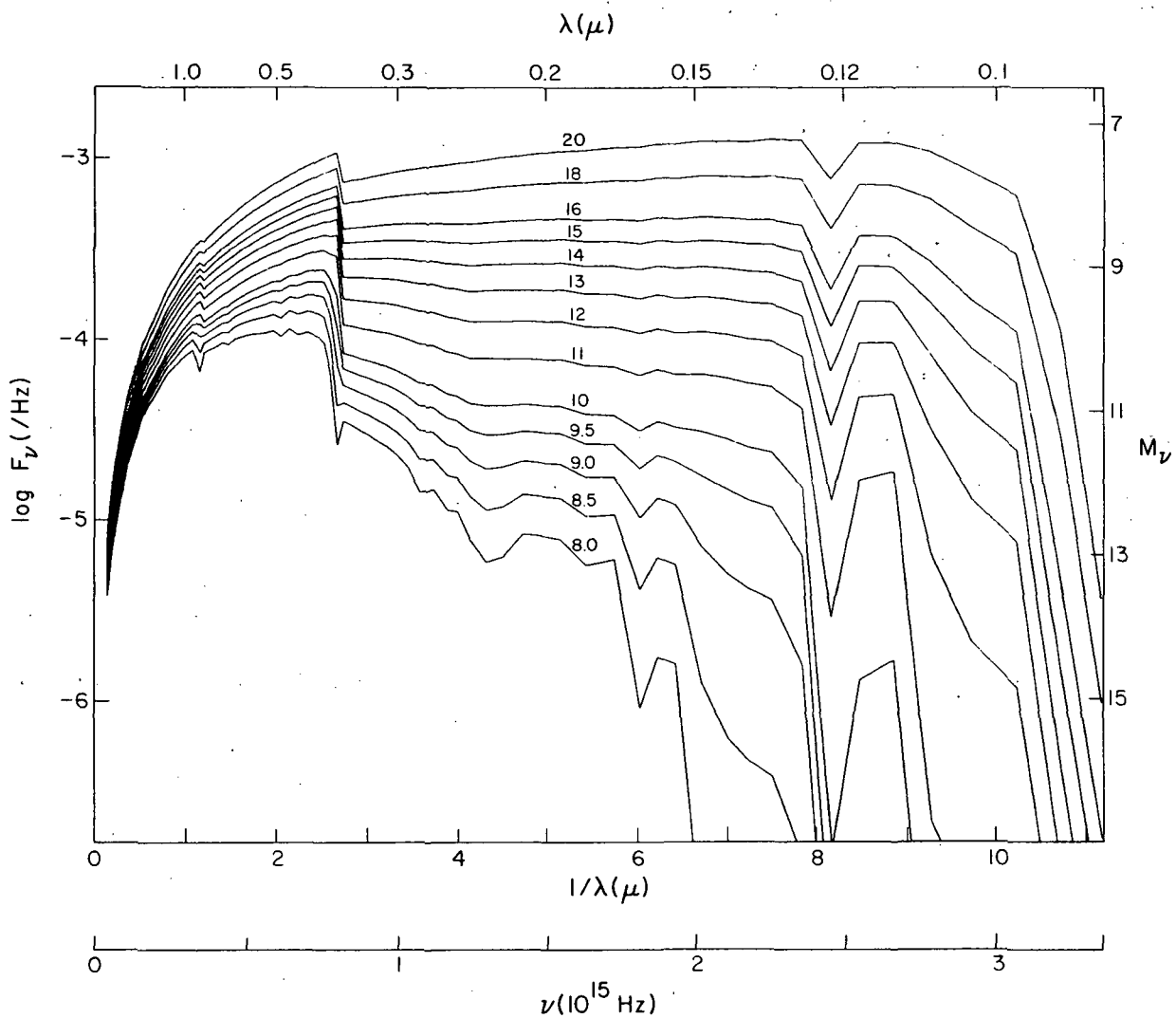


Figure 3. The change in the flux distribution for the  $\log g = 4$  models as the effective temperature increases. The temperatures are 8000, 8500, 9000, 9500, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 18000, and 20000 K.

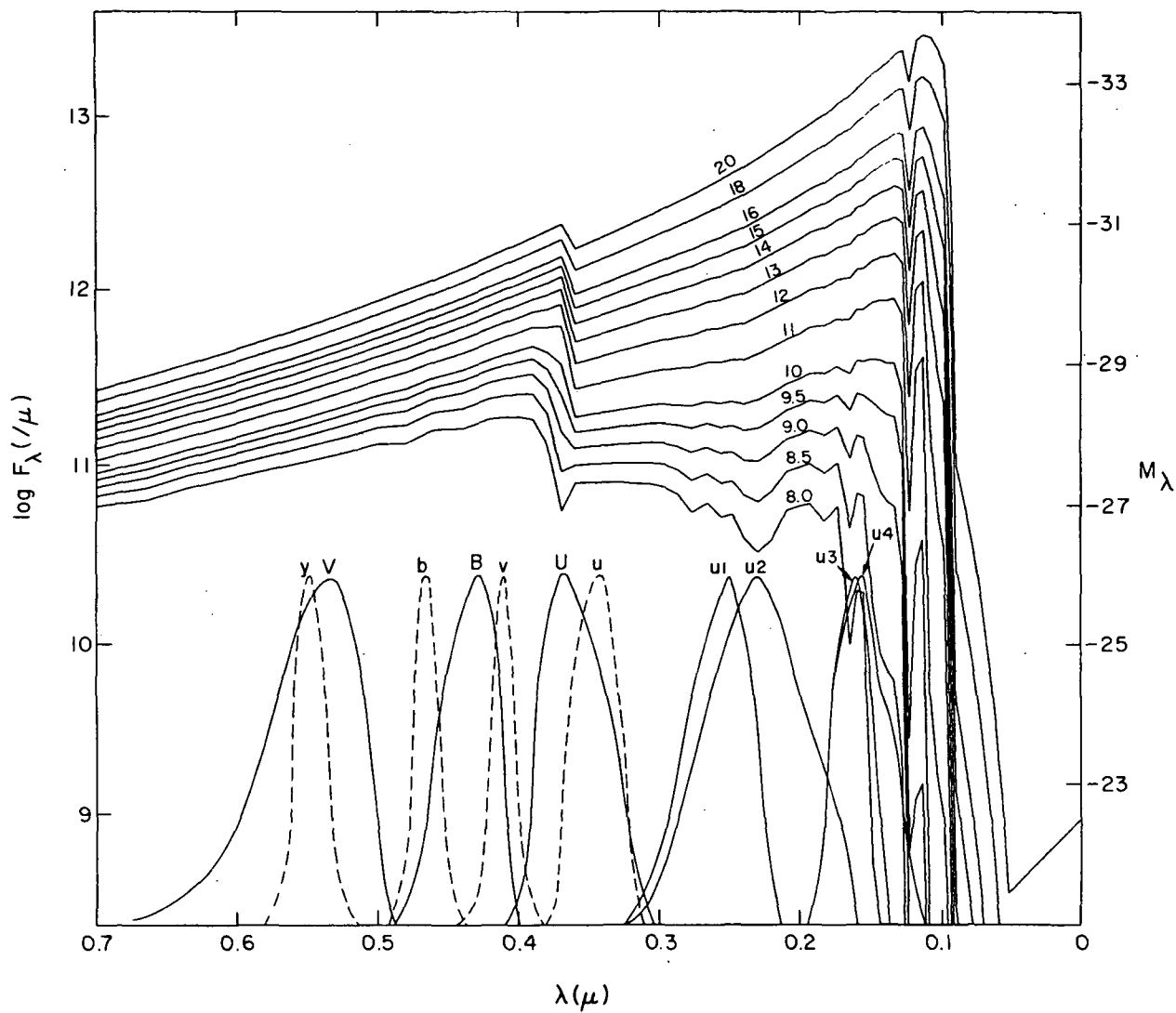


Figure 4. The same models as shown in Figure 3 but on a wavelength scale. UBV, ubvy, and Telescope filters are indicated. See Section 4.4 and Figure 10.



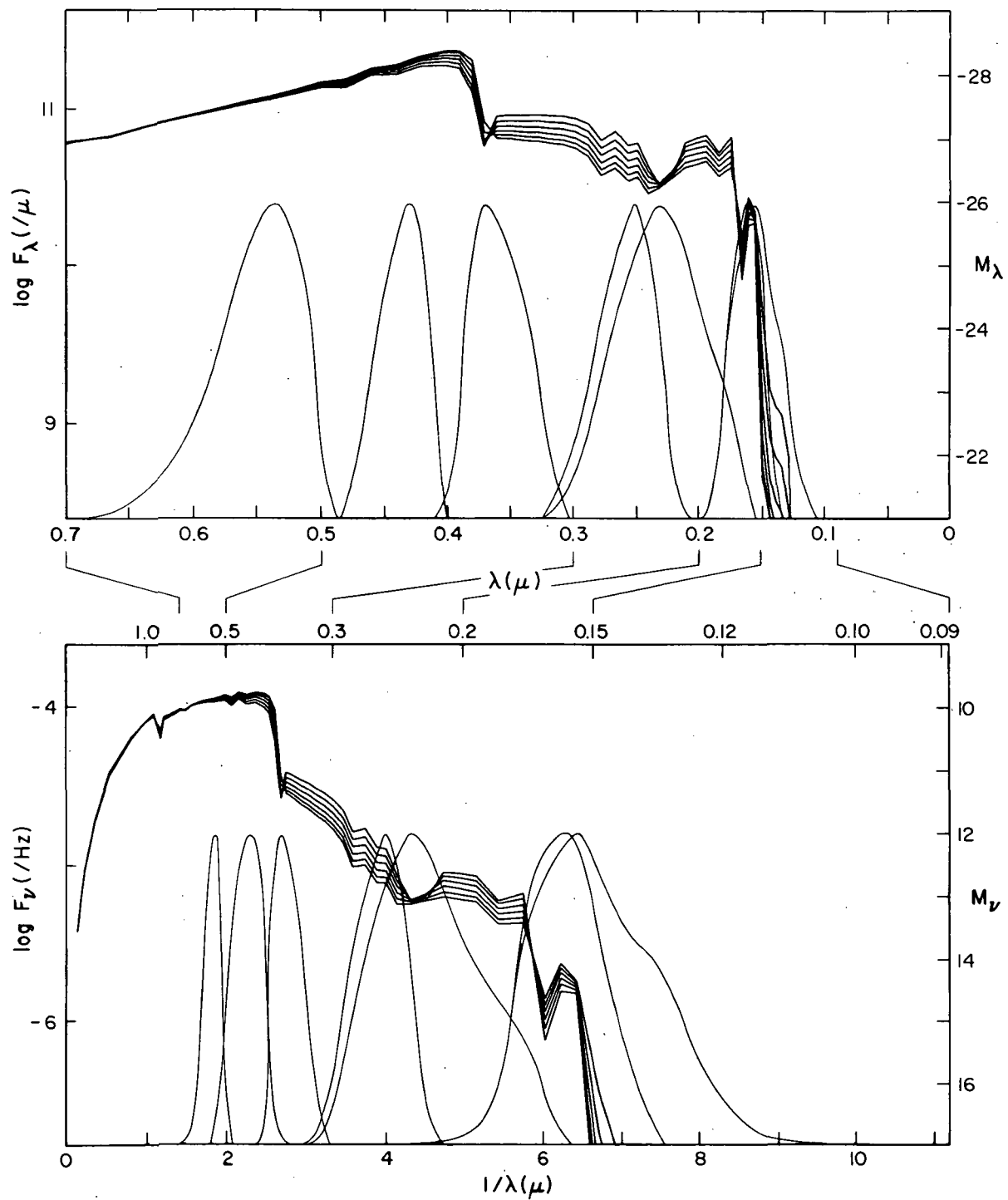


Figure 5. The effect on the flux distribution of changing gravity for the effective temperature 8000 K. The models plotted have gravities of 2, 2.5, 3, 3.5, 4, and 4.5. Refer to Table 2 for identification of the flux curves corresponding to each gravity. The U, B, V and  $U_1$ ,  $U_2$ ,  $U_3$ ,  $U_4$  sensitivity functions indicated above are identified in Figure 10.

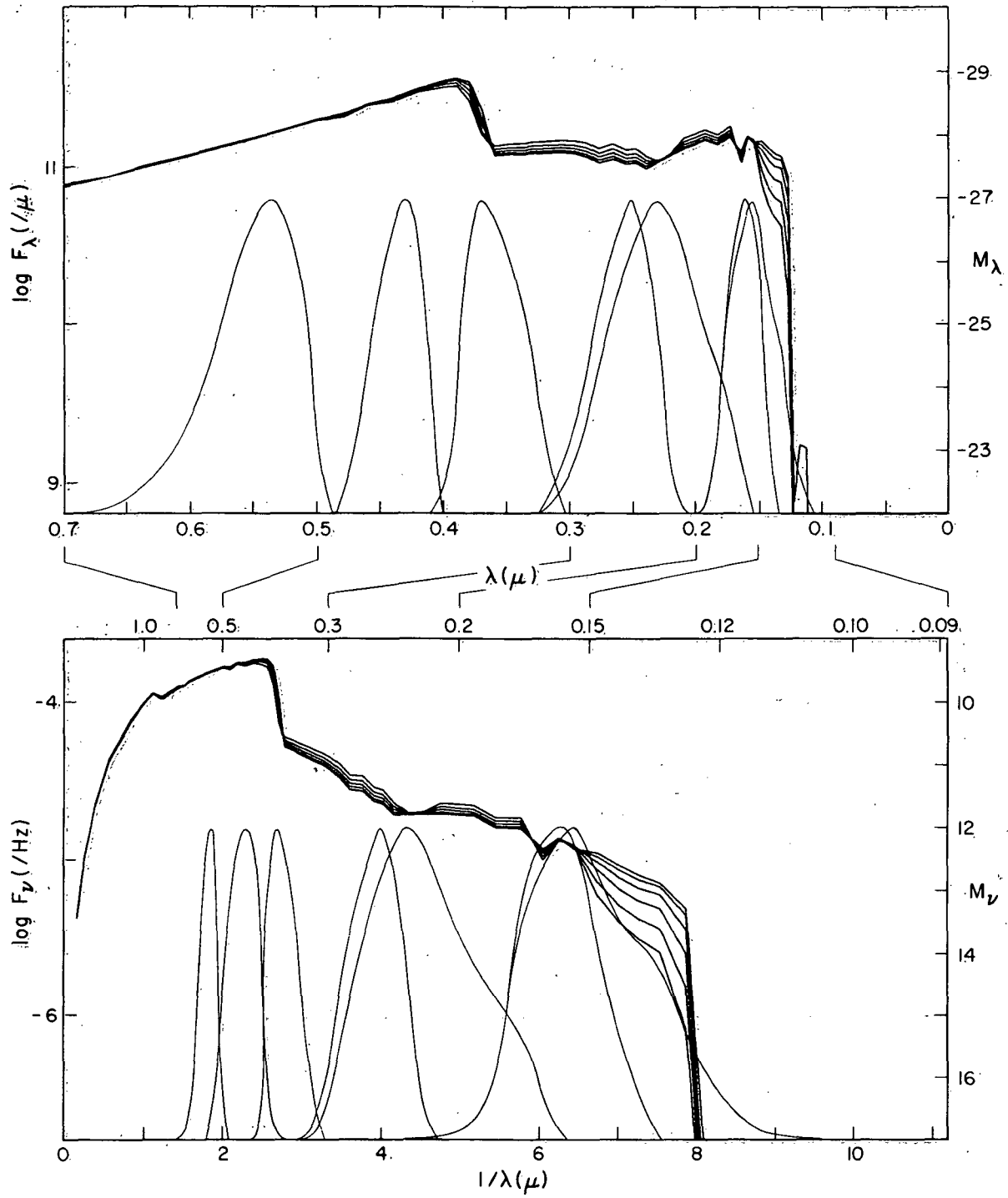


Figure 6. The same as Figure 5 for 9000 K.

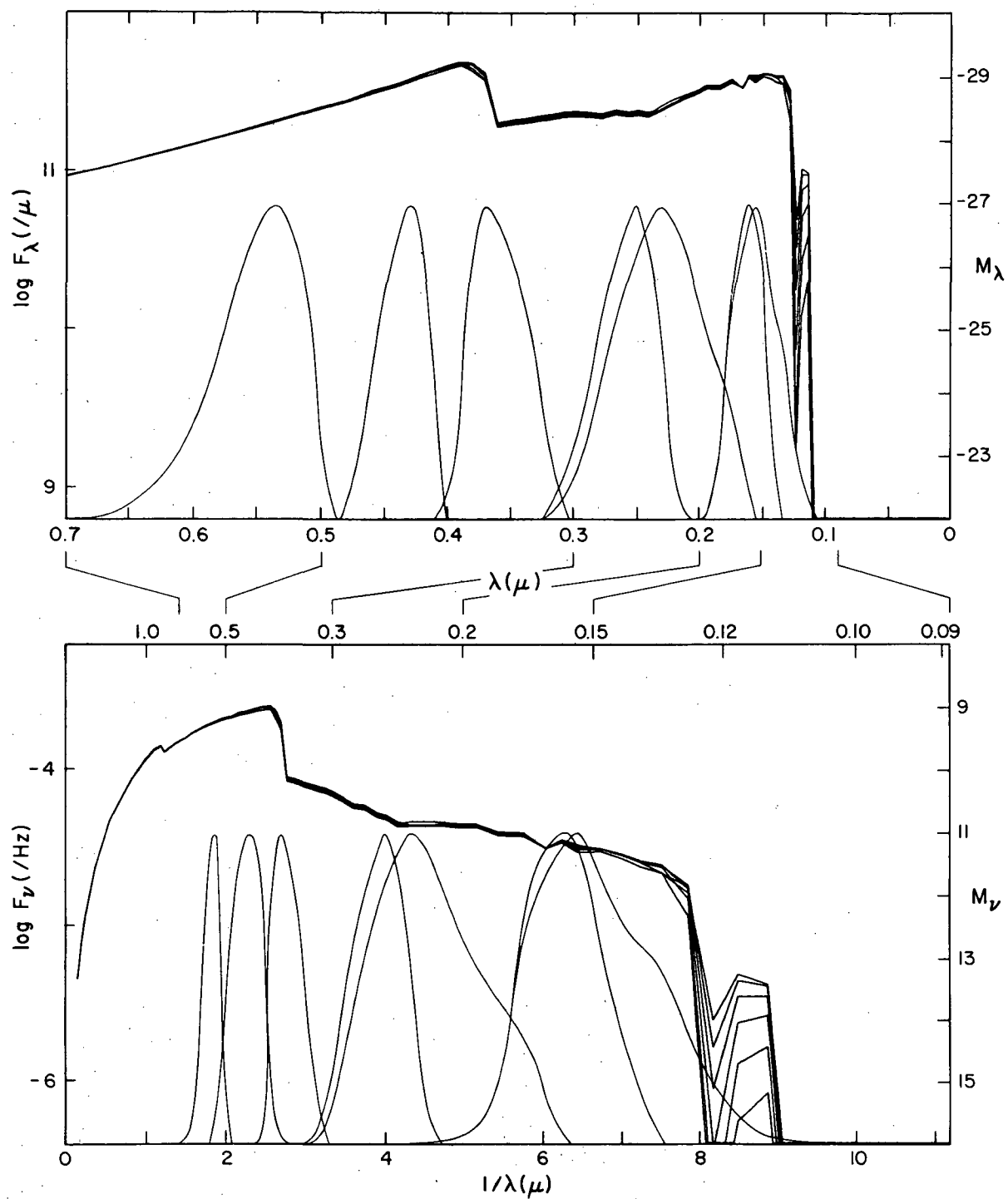


Figure 7. The same as Figure 5 for 10000 K.

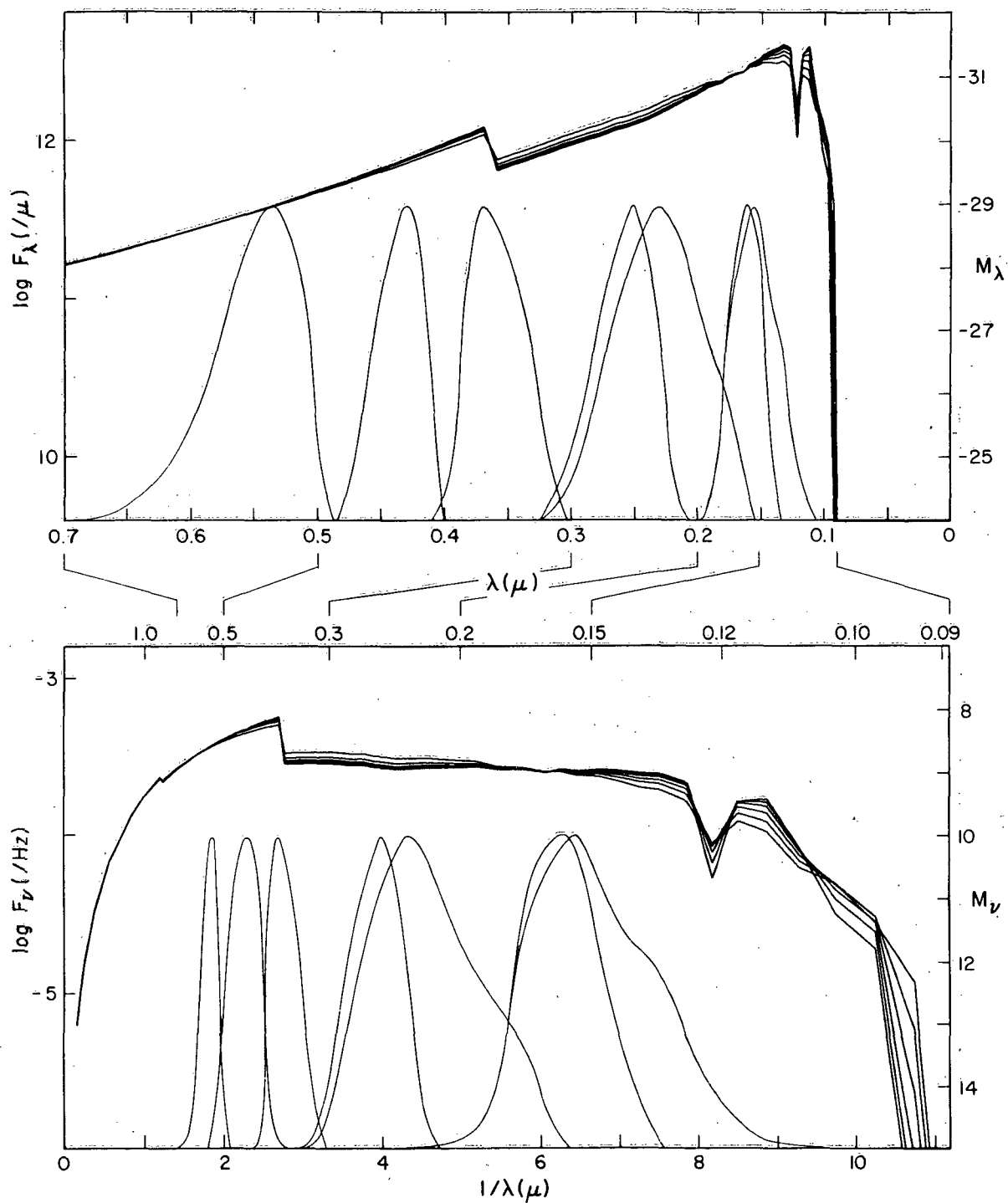


Figure 8. The same as Figure 5 for 14000 K.

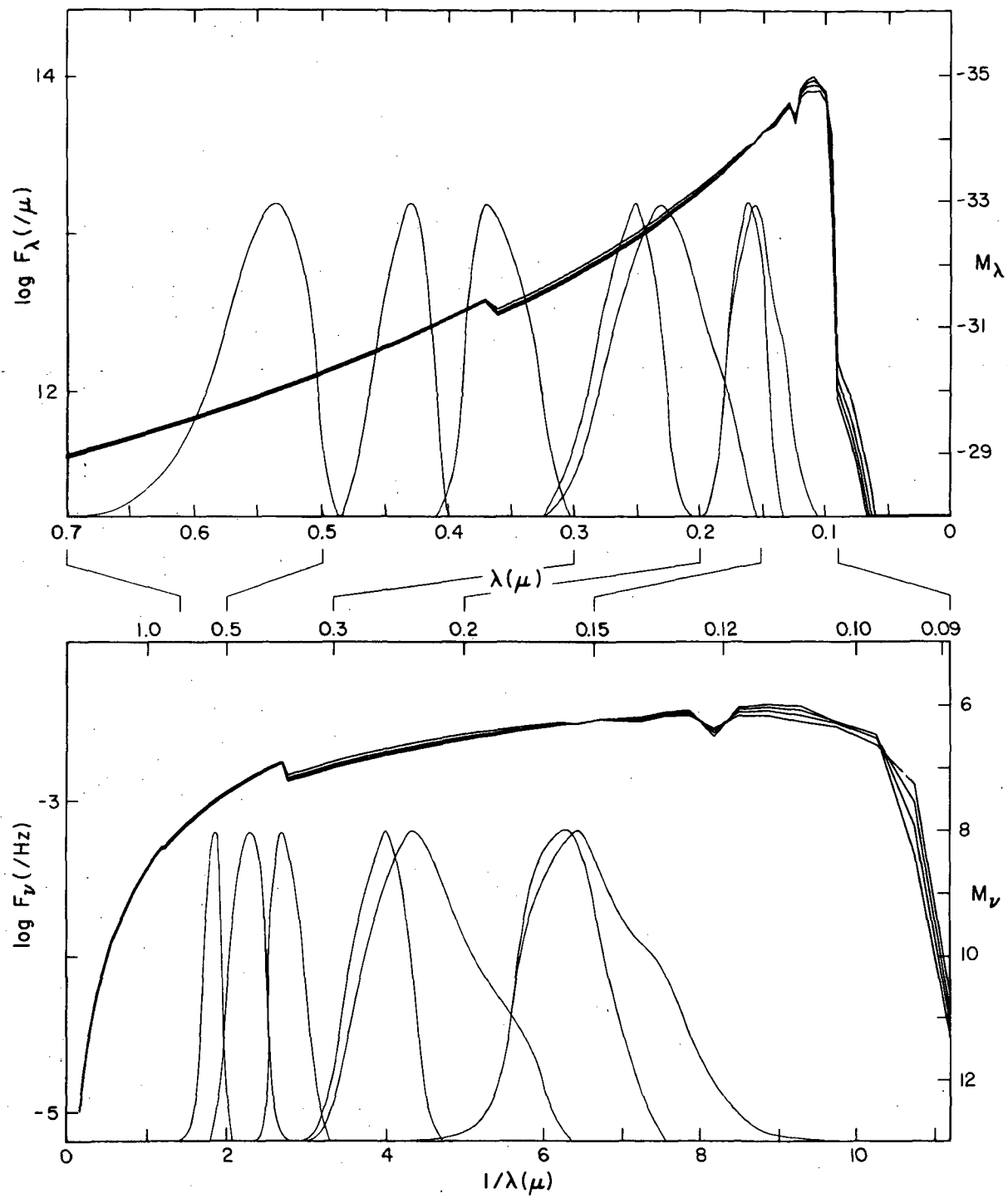


Figure 9. The effect on the flux distribution of changing gravity for the effective temperature 25000 K. The models plotted have gravities 3.5, 4, 4.5, and 5.

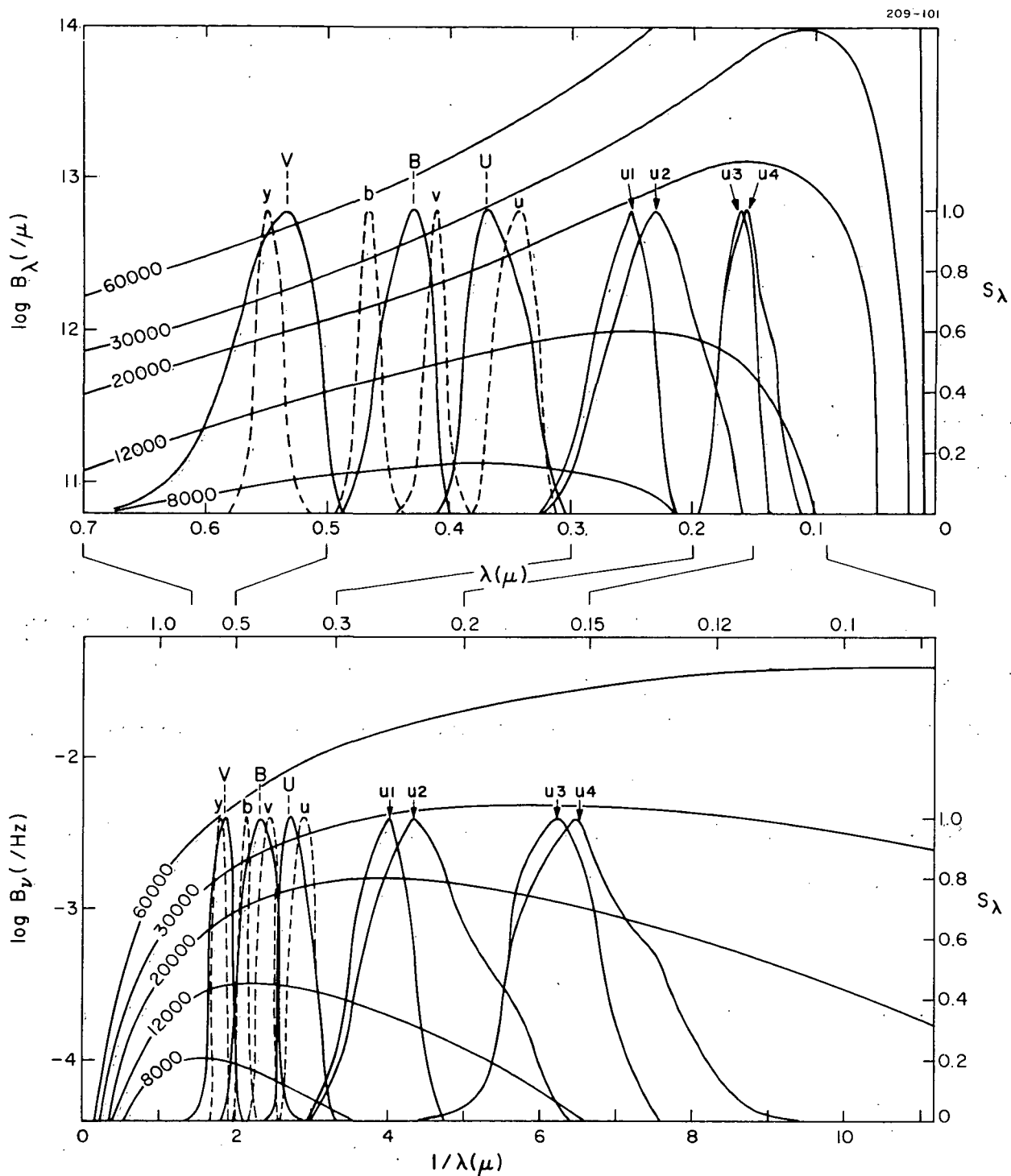


Figure 10. The sensitivity curves for the Telescope, UVB, and Strömberg uvby photo-metric systems, each normalized to unity at maximum sensitivity, plotted against  $\lambda$  and  $1/\lambda$ . Also shown are Planck curves for several values of temperature.

Here,  $F_\lambda$  is the flux per unit wavelength (eq. (11)), and  $S_i(\lambda)$  is the response function of the photometric system for filter  $i$  with limits  $\alpha_i$  and  $\beta_i$ . The alternative way of defining  $E_i$  is by the normalized expression

$$E_i^n = \frac{\int_{\alpha_i}^{\beta_i} F_\lambda S_i(\lambda) d\lambda}{\int_{\alpha_i}^{\beta_i} S_i(\lambda) d\lambda} \quad (17)$$

In this case,  $E_i^n$  is well defined even though the absolute normalization of  $S$  is unknown.

The constant in equation (15) will depend on the stellar radius and distance if  $m_i$  is an observed magnitude and if  $F_\lambda$  is the flux at the stellar surface. The constant also depends on our definition of  $E_i$  and on the way we relate the magnitude to a standard magnitude scale. We ignore interstellar extinction in this discussion.

When we form the color index  $m_i - m_j$ , the radius and distance cancel out. Apart from an arbitrary scaling constant, we can write

$$m_i - m_j = -2.5 \log \int_{\alpha_i}^{\beta_i} F_\lambda S_i^{abs}(\lambda) d\lambda + 2.5 \log \int_{\alpha_j}^{\beta_j} F_\lambda S_j^{abs}(\lambda) d\lambda, \quad (18)$$

where  $S^{abs}$  represents the absolute transmission of the given filter and, in principle, is related to  $S$  in equation (16) by

$$S_i^{abs}(\lambda) = s_i^n S_i(\lambda) \quad , \quad (19)$$

where  $s_i^n$  is independent of wavelength. Then,

$$m_i - m_j = -2.5 \log \frac{E_i}{E_j} + a_{ij} \quad , \quad (20)$$

where

$$a_{ij} = -2.5 \log \frac{s_i^n}{s_j^n} \quad (21)$$

We can also define the normalized color index

$$m_i^n - m_j^n = -2.5 \log \frac{E_i^n}{E_j^n} \quad , \quad (22)$$

again apart from any arbitrary constant that may be added to adjust the magnitude scale. These two color indices are related by the equation

$$m_i^n - m_j^n = m_i - m_j + 2.5 \log \frac{\int S_i^{abs}(\lambda) d\lambda}{\int S_j^{abs}(\lambda) d\lambda} \quad (23)$$

The UBV system is based on  $m_i - m_j$  color indices. We adopt the following relations given by Matthews and Sandage (1963). The B - V color is determined according to



$$B - V = -2.5 \log \frac{E_B}{E_V} + 0.91 \quad , \quad (24)$$

where  $S_B(\lambda)$  and  $S_V(\lambda)$  in equation (16) for  $E_B$  and  $E_V$  are the sensitivity functions for zero air mass. Since the U filter is not independent of atmospheric transmission, the U - B color is determined by

$$U - B = 0.921 \left( -2.5 \log \frac{E_U}{E_B} \right) - 1.308 \quad , \quad (25)$$

where both  $S_U$  and  $S_B$  in this case are the sensitivity functions for one air mass.

For the Telescope system, the four ultraviolet bandpasses  $U_1$ ,  $U_2$ ,  $U_3$ , and  $U_4$  are broad, so that our average fluxes are well suited for the magnitude calculations. The response functions  $S_i(\lambda)$  are taken from Davis (1968). The Telescope catalog (Davis, Deutschman, and Haramundanis, 1972) contains the observed  $u_1$  through  $u_4$  magnitudes defined according to

$$u_i = -2.5 \log E_i^n \quad , \quad (26)$$

where  $E_i^n$  is given by equation (17) and where  $F_\lambda$  in equation (17) represents the flux observed just outside the earth's atmosphere. These magnitudes then depend on stellar radius and distance and on interstellar extinction.

For comparison, we calculate the colors  $U_i - V^n$ ,  $i = 1, 2, 3, 4$ , defined by

$$U_i - V^n = -2.5 \log \frac{E_i^n}{E_V^n}, \quad (27)$$

where  $F_\lambda$  in equation (17) is the calculated flux for a star of given effective temperature and surface gravity. Also we give the normalized  $V^n$  magnitude,

$$V^n = -2.5 \log E_V^n, \quad (28)$$

also defined in terms of the calculated flux at the stellar surface.

If  $v^n$  is the normalized magnitude in the V band based on the observed flux, then the colors  $u_i - v^n$  and  $U_i - V^n$  should agree, apart from the effects of interstellar extinction, if the model calculations and the tabulated values of  $S_i(\lambda)$  are correct. Note that  $v^n$  differs from the usual observed magnitude  $V$ .

#### 4.5 Bolometric Corrections

We define a bolometric correction B. C. (V) with respect to the V filter of the UBV system according to

$$M_{\text{Bol}} = M_V - \text{B. C. (V)} \quad (29)$$

(where B. C. (V) is always positive). Here  $M_V$  is the absolute magnitude in the V filter and  $M_{\text{Bol}}$  is the absolute bolometric magnitude

$$M_{\text{Bol}} = -2.5 \log L + \text{constant} , \quad (30)$$

where  $L$  is the absolute luminosity defined by equation (9).

Because  $M_{\text{Bol}}$  is a measure of the total luminosity of a star, and  $M_V$  a measure of that fraction of the luminosity that passes through filter  $V$ , we want to rewrite B. C. (V) so that it can be related to quantities given by model atmospheres:

$$\text{B. C. (V)} = -2.5 \log \frac{\int_0^\infty F_\lambda S_V^N(\lambda) d\lambda}{\int_0^\infty F_\lambda d\lambda} + \text{constant} , \quad (31)$$

where

$$S_V^N(\lambda) = \frac{S_V(\lambda)}{S_V(\text{max})} . \quad (32)$$

From the definition of the effective temperatures, we know that

$$\int_0^\infty F_\lambda d\lambda = \frac{\sigma}{\pi} T_{\text{eff}}^4 . \quad (33)$$

The values of  $F_\lambda$  are obtained from our model atmosphere calculations, and  $S_V(\lambda)$  is again taken from Matthews and Sandage (1963) for zero air mass. We have normalized  $S_V(\lambda)$  by dividing it by its maximum value  $S_V(\text{max}) = 3.30$ . This is permissible because of the arbitrary multiplicative constant (additive in the log) used to define the zero point of the bolometric magnitude scale. This procedure then allows easy inter-comparison of the quantity

$$R^V = \frac{\int_0^\infty F_\lambda S_V^N(\lambda) d\lambda}{\int_0^\infty F_\lambda d\lambda}, \quad (34)$$

which represents the fraction of the total flux transmitted by the V filter relative to maximum transmission.

If we use the sun to define the zero point of the bolometric scale, we can take a further step. If we apply equations (29), (31), and (34) to the sun, it follows that

$$\text{B. C. (V)} = -2.5 \log \frac{R^V}{R_\odot^V} + \text{B. C. (V)}_\odot \quad (35)$$

We calculate  $R_\odot^V$  from the fluxes of Labs and Neckel (1968), who tabulate the solar irradiance at the top of the earth's atmosphere. Their quantity  $h(\lambda)$  is related to our flux  $F_\lambda$  by

$$F_\lambda = 1.471 \times 10^7 h(\lambda) \quad (F_\lambda \text{ in ergs cm}^{-2} \text{ sec}^{-1} \mu\text{m}^{-1}) \quad (36)$$

The corresponding effective temperature is  $T_{\text{eff}} = 5780$  K. In a later paper, Labs and Neckel (1970) revised their table of  $h(\lambda)$ , but even with a corresponding change of the solar constant or effective temperature, the calculation of  $R_\odot^V$  is not significantly affected. We obtain the value  $R_\odot^V = 0.119$ .

It should be noted that Thekaekara and Drummond (1971) find very nearly the same solar constant ( $0.1353 \text{ w cm}^{-2}$ ) as do Labs and Neckel (1970) in their revised paper ( $0.1358 \text{ w cm}^{-2}$ ). However, their solar irradiance in the V filter is smaller than that of Labs and Neckel (1970) by about 5%.

We now specify the value of  $B. C. (V)_{\odot}$  in equation (35). We could have taken Kuiper's (1938) classical value 0.07, as did Bradley and Morton (1969), or the more recent value 0.11 quoted by Aller (1963). Instead, we have adopted the following procedure.

The model in our grid with the smallest bolometric correction is the one having  $T_{\text{eff}} = 8000 \text{ K}$ ,  $\log g = 2.0$ . This model is in the range of those with minimum values of B. C. (for example, see Table 2 of Morton and Adams, 1968). We have chosen  $B. C._{\odot}$  such that  $B. C. = 0$  for this  $8000 \text{ K}$ ,  $\log g = 2$  model, and as a consequence, we obtain  $B. C._{\odot} = 0.12$ .

We then have three equivalent expressions for the bolometric corrections listed in Table 3:

$$B. C. (V) = -2.5 \log \frac{R_V^V}{R_{\odot}^V} + B. C. (V)_{\odot} \quad , \quad (37)$$

or

$$B. C. (V) = -2.5 \log \frac{R_V^V}{R_{8000, 2}^V} \quad , \quad (38)$$

where  $R_{\odot}^V = 0.119$ ,  $B.C._{\odot} = 0.12$ , and  $R_{8000,2}^V = 0.133$ , or the numerically equivalent formula

$$B.C.(V) = -2.5 \log R^V - 2.19, \quad (39)$$

where  $R^V$  is given by equation (34). These equations are sufficient to relate our bolometric corrections to those defined in other ways. If, for example,  $B.C.(V)$  is to be converted to a scale with another solar bolometric correction  $B.C.'(V)_{\odot}$ , then the new bolometric correction will be given by

$$B.C.'(V) = B.C.(V) - 0.12 + B.C.'(V)_{\odot} \quad (40)$$

#### 4.6 Balmer Line Profiles

We have computed profiles for  $H_{\alpha}$ ,  $H_{\beta}$ ,  $H_{\gamma}$  and  $H_{\delta}$  with the program BALMER written by Deane Peterson using the theory of Griem (1967). In Table 4 we give for each model the residual flux relative to a linear "continuum" drawn between the points at  $\pm 100 \text{ \AA}$  from line center. Also we give the flux  $F_{\nu} (\text{Hz}^{-1})$  at these  $\pm 100 \text{ \AA}$  points and the equivalent line widths ( $\text{\AA}$ ).

## 5. COMPARISON WITH OTHER MODELS

In this section we compare our models to those by Carbon and Gingerich (1969), Fowler (1972), Van Citters and Morton (1970), Bradley and Morton (1969), and Mihalas (1972). We have not made a complete selection of published models but rather have chosen models to indicate specific comparisons, with particular reference to other treatments of line blanketing and to non-LTE effects.

Carbon and Gingerich (1969) calculated a grid of blanketed models for temperatures ranging from 4000 to 10000 K. The models included Balmer lines explicitly and a three-step distribution function for other lines. The opacity, width, and temperature-pressure dependence of each step were empirically determined through measurements of blocking coefficients and through observing the behavior of various lines with depth. Since blocking coefficients were not available in the far ultraviolet, the ultraviolet line opacity was extrapolated. Above 8500 K, Carbon and Gingerich included only Balmer line blanketing since they could not estimate blocking at those temperatures.

Figures 11 and 12 show the comparison with our models at 8000 and 10000 K. Our completely theoretical procedure allows us to compute a Balmer continuum flux distribution that seems much more realistic and that results in a higher flux in the Paschen continuum.

The comparison of the temperature-pressure relations for these same models in Figure 13 allows us to make some general observations about the effects of blanketing.

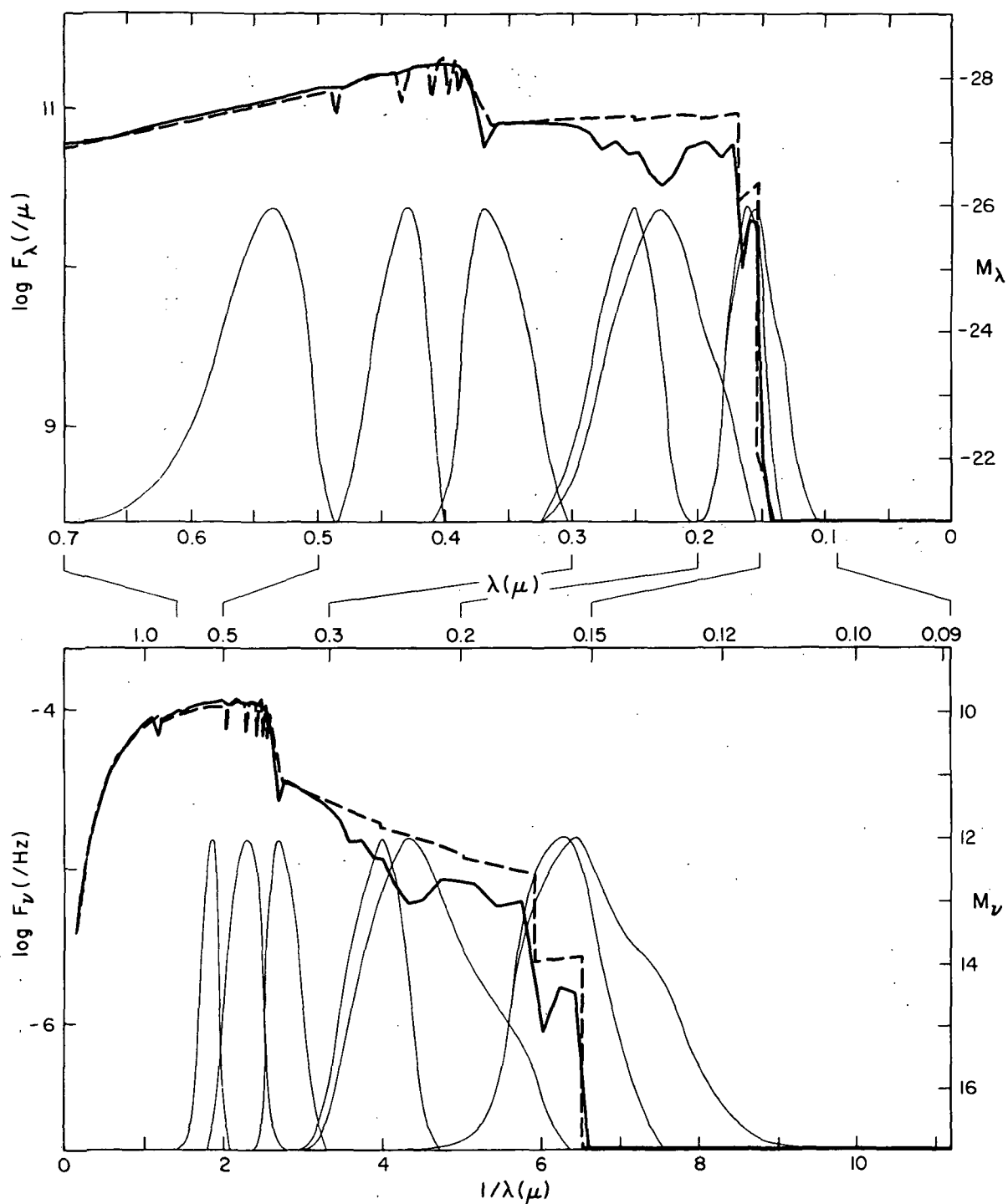


Figure 11. Comparison of the Carbon and Gingerich (8000, 4) model (dashed line) to our (8000, 4) model (solid line).



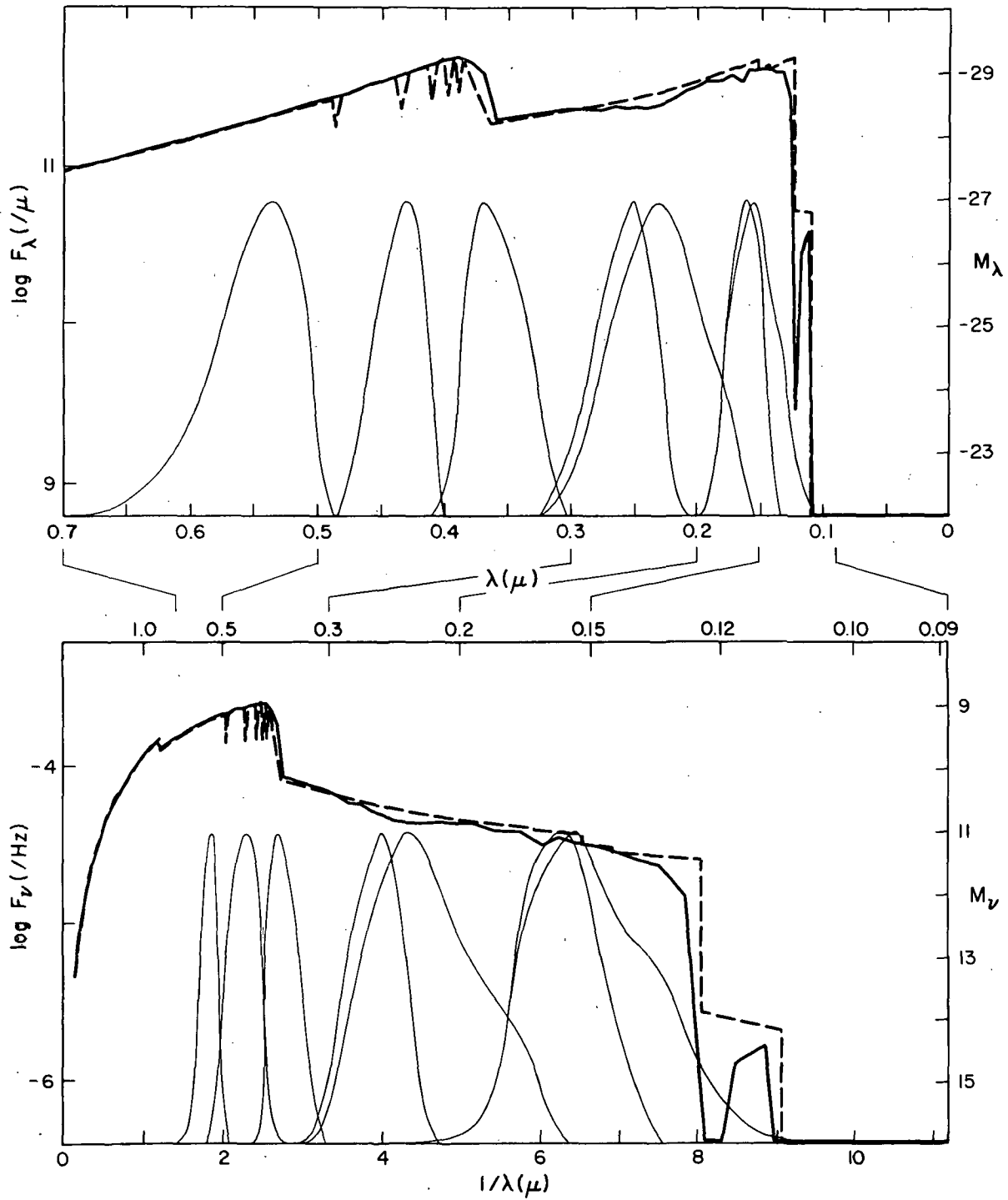


Figure 12. Comparison of the Carbon and Gingerich (10000, 4) model (dashed line) to our (10000, 4) model (solid line).

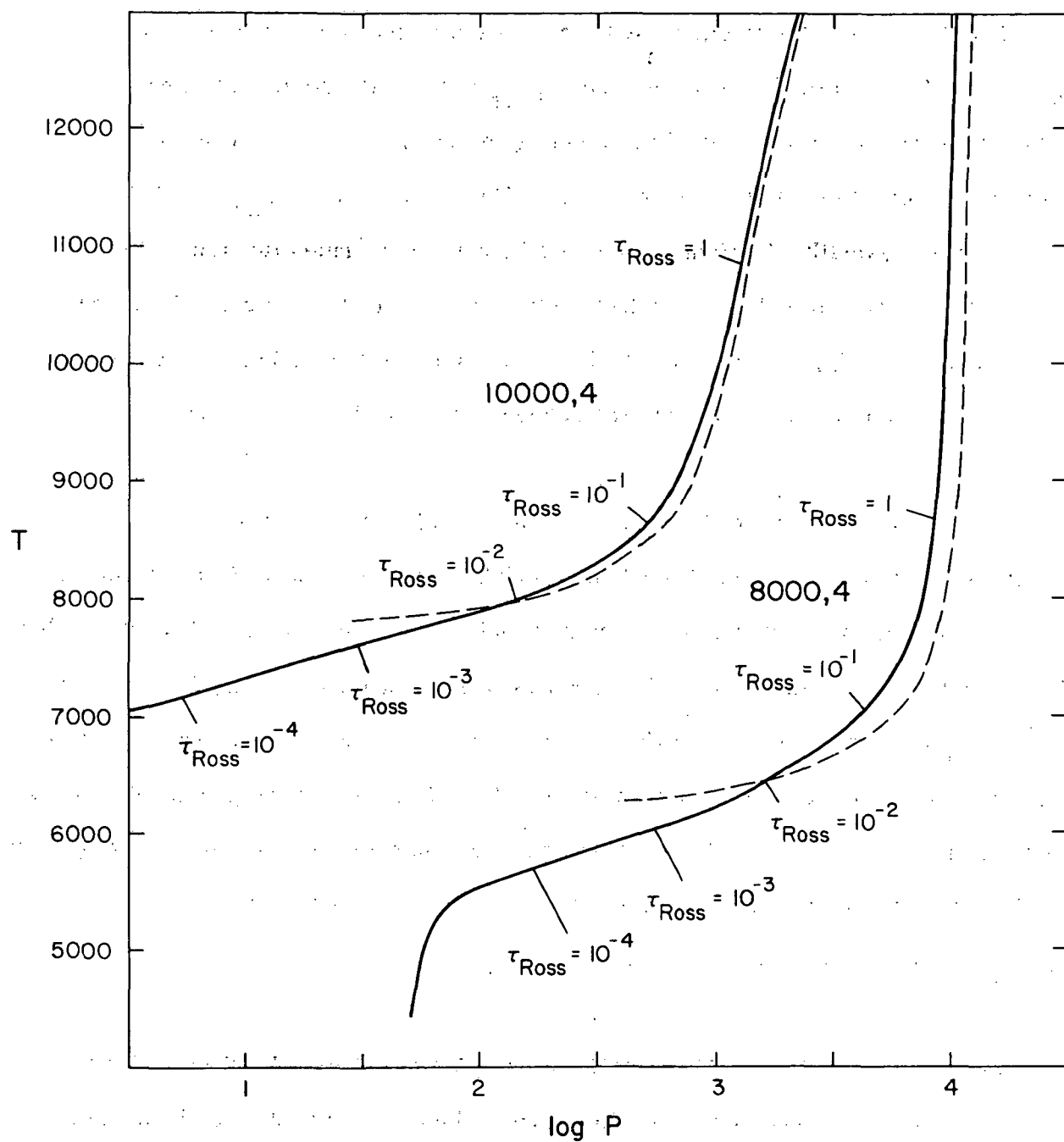


Figure 13. Comparison of the Carbon and Gingerich temperature-pressure relations (dashed lines) to ours (solid lines) for (8000, 4) and (10000, 4). Rosseland optical-depth values from our models are indicated on the curves.

Even though the Carbon and Gingerich models are already partially blanketed, the inclusion of our line opacity significantly raises the temperature at depths greater than  $\tau_{\text{Ross}} = 0.01$ . At optical depths less than  $\tau_{\text{Ross}} = 0.01$ , the additional lines are becoming transparent, thereby allowing energy to escape more easily so that the temperature drops to maintain constant flux. The behavior for  $\tau_{\text{Ross}} < 0.0001$  is probably not physically significant, since we have not performed the statistical equilibrium calculations that are undoubtedly necessary at the lower densities near the surface. Finally, the overall result of increasing the blanketing is a steeper temperature gradient, which affects the shape of line profiles and continua.

Fowler (1972) has determined a gravity and effective temperature for Sirius by comparison with a small grid of blanketed models clustered around (9700, 4.26). He calculated a form of the distribution function that he calls an artificial absorption edge. For any interval, the distribution function  $f$  is transformed to wavelength space such that  $\ell_{\nu \text{ min}}$  occurs at the start of the interval and  $\ell_{\nu \text{ max}}$  at the end. Then the frequency integrals are calculated by integrating directly over frequency without an intermediate integration over the distribution function. Such an approach to the line opacity should give results essentially identical to ours if the distribution functions and atmosphere programs are equivalent.

Fowler used a list of 29,000 lines obtained from the same published sources as were the 30,000 lines used by Strom and Kurucz (1966). For each line, he assumed a van der Waals damping constant approximately twice ours and a radiative damping constant of 10 gA. This radiative damping constant is at least 30 times larger than ours, which was assumed to be classical. We estimate this ratio as follows. Since

$$A_{ji} = \frac{g_i}{g_j} \frac{8\pi^2 e^2 \nu^2}{mc^3} f_{ij} = 3 \frac{g_i}{g_j} f_{ij} \gamma_{\text{classical}} \quad , \quad (41)$$

Fowler's constant is

$$10 \text{ gA} = 30 \text{ gf } \gamma_{\text{classical}} \quad . \quad (42)$$

The damping constant is important only for strong lines because the continuum completely overwhelms the wings of weak lines. Strong lines tend to have large gf values. For example, Huber and Parkinson (1972) list a number of Fe I lines with gf values between 1 and 4. Thus, a strong line with a gf value of unity was assumed to have a damping constant of 30 times classical.

Since Fowler had very few lines in the far ultraviolet, he was forced to estimate the line opacity there. Also, he did not include carbon, magnesium, or silicon continua in his model calculations.

In Figures 14 and 15, we show comparisons between the two models we had in common with Fowler. Note that Fowler's models have higher fluxes in the visible, which indicates more blanketing in the ultraviolet. Even though Fowler included many fewer lines, his models are more blanketed than ours because he used much greater radiative damping and a larger extrapolated opacity in the far ultraviolet.

We do not mean to imply that our damping constants are necessarily correct. We expect that our Stark broadening and van der Waals broadening are near the lower limit, while Fowler's choice of larger van der Waals damping is as justifiable as

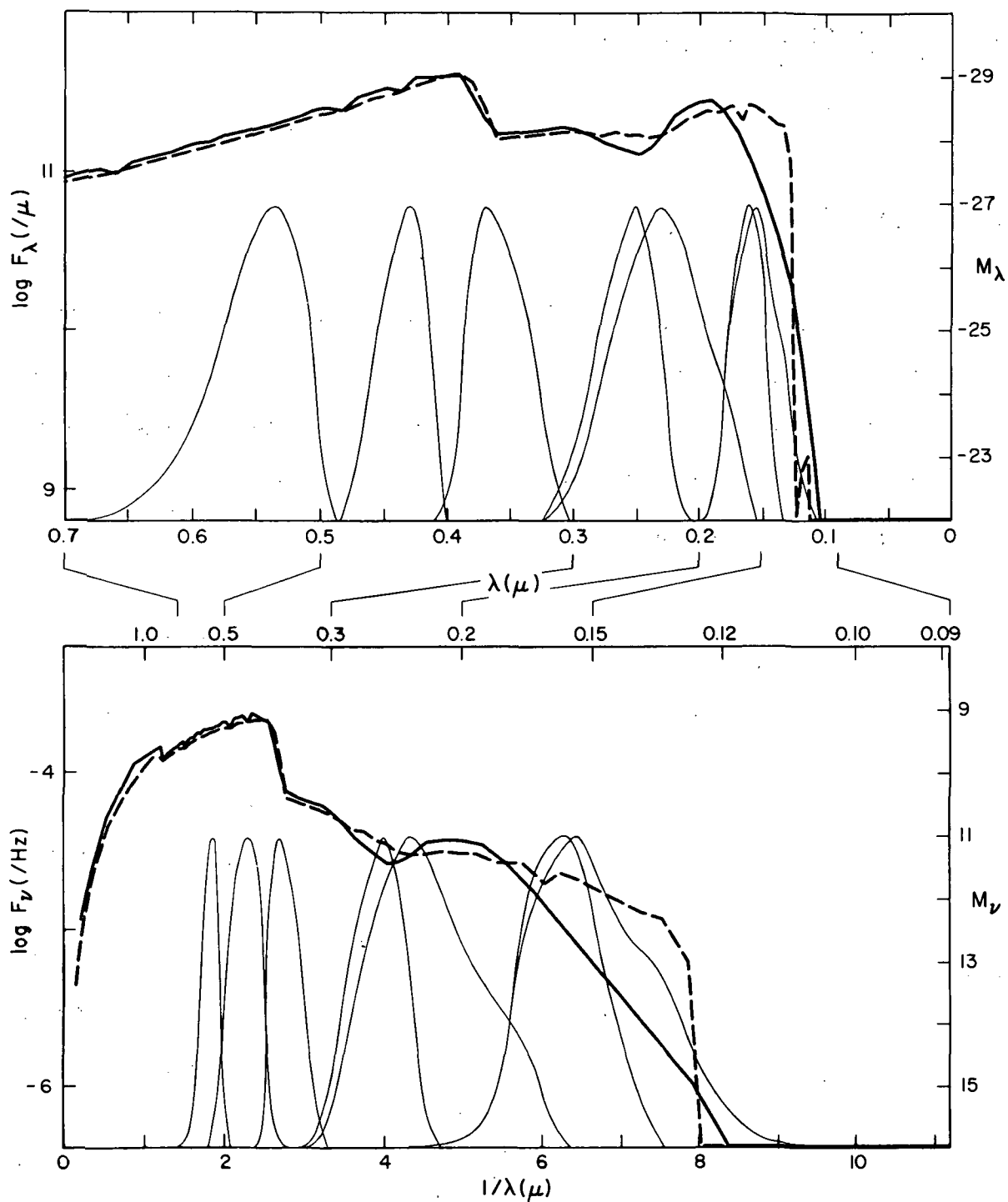


Figure 14. Comparison of the Fowler (9500, 4) model (solid line) to our (9500, 4) model (dashed line).

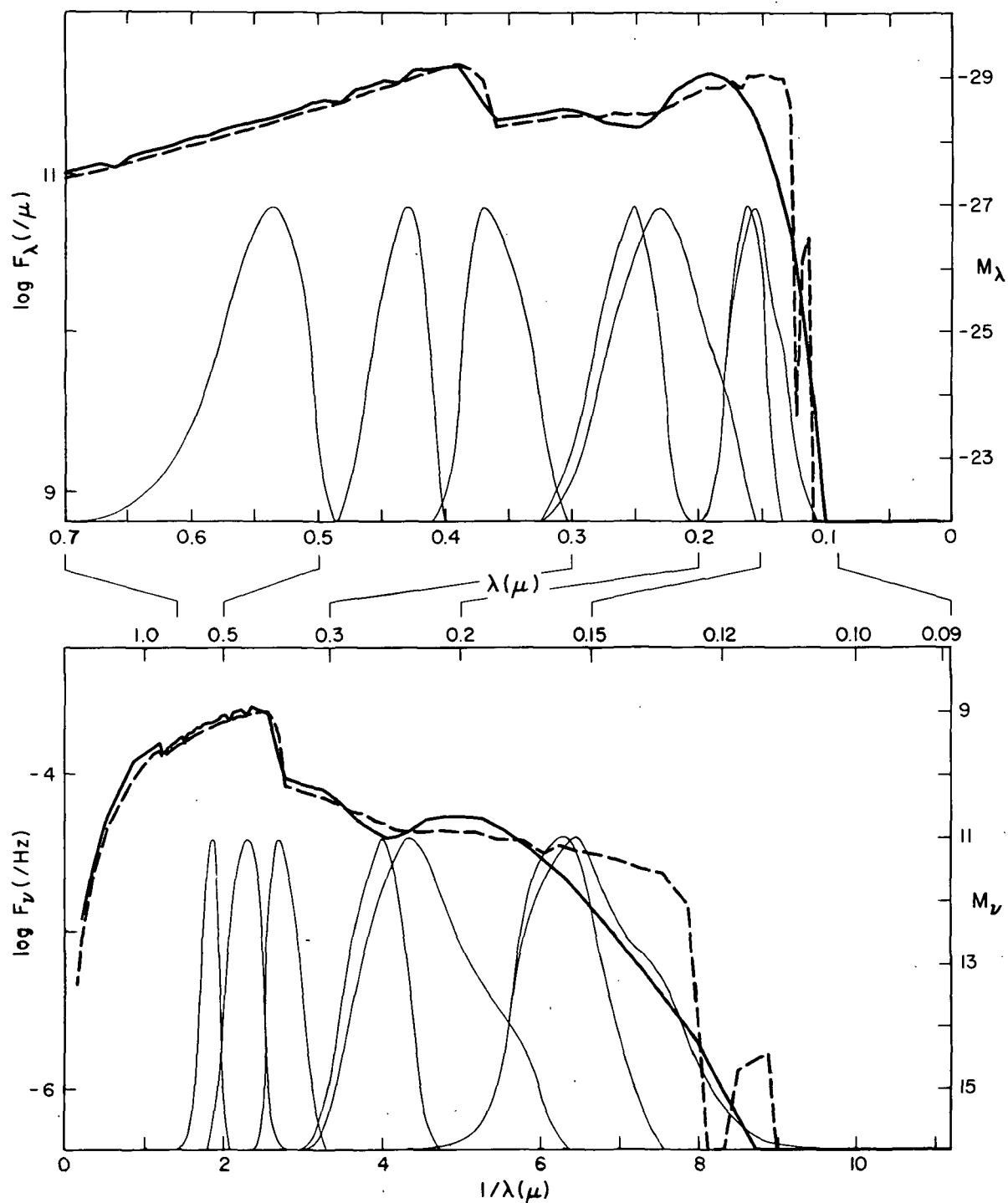


Figure 15. Comparison of the Fowler (10000, 4) model (solid line) to our (10000, 4) model (dashed line).

ours. However, until individual radiative damping constants are available for every strong line, we feel that a guess close to the classical damping constant is preferred (see Peytremann, 1972).

Van Citters and Morton (1970) have published a grid of blanketed models for B stars in which 98 of the strongest lines in the ultraviolet have been included explicitly. Bradley and Morton (1969) have published a similar grid for the O stars, including 110 lines. Both assumed 10 times classical damping constants for the lines except for H I and He II, for which Griem's (1960, 1962) formulas were used. Their models have a helium abundance 30% higher than ours, but the effects of the choice for the helium abundance are secondary to those of line blanketing.

In order to compare our models to theirs, we averaged their spectra over our distribution function intervals. The results are shown in Figure 16 for the Van Citters and Morton model for  $T_{\text{eff}} = 25200$ ,  $\log g = 4$ . When we compare this average Van Citters and Morton (25200, 4) model to our (25000, 4) model (Figure 17), we find that theirs is considerably more blanketed, even though they include many fewer lines, because they have used a much larger damping constant. Peytremann (1972) has discussed the damping constants for some of these same lines and finds our choice of the classical damping with Stark broadening to be more reasonable than the assumption of 10 times classical damping. Furthermore, Griem (1967) indicates that in his 1960 paper, which Van Citters and Morton used, impact broadening for hydrogen lines was overestimated by a factor of  $n/6.75$  for high  $n$  series members.

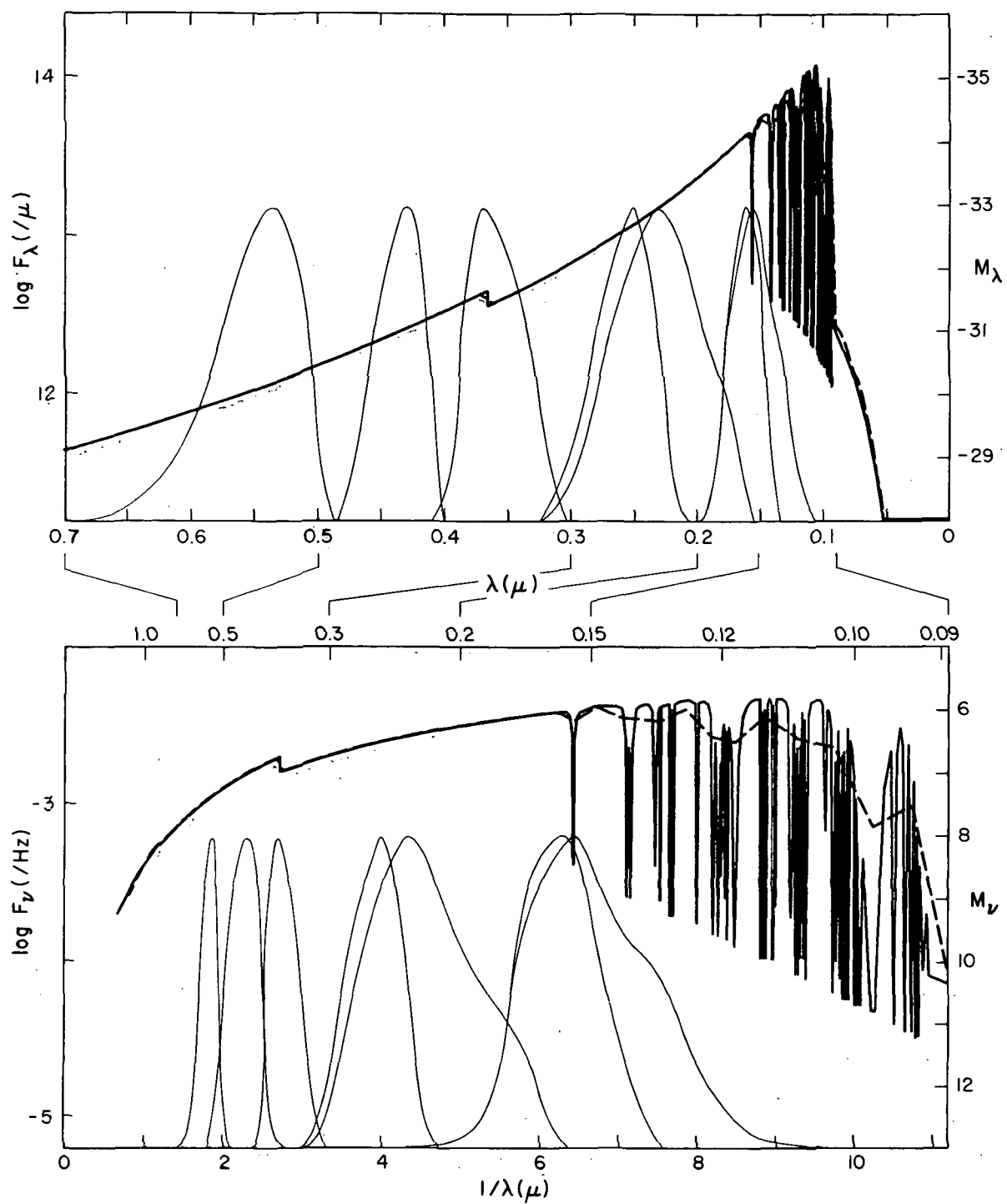


Figure 16. The Van Citters and Morton (25200, 4) model (solid line) averaged over our distribution function intervals (dashed line).



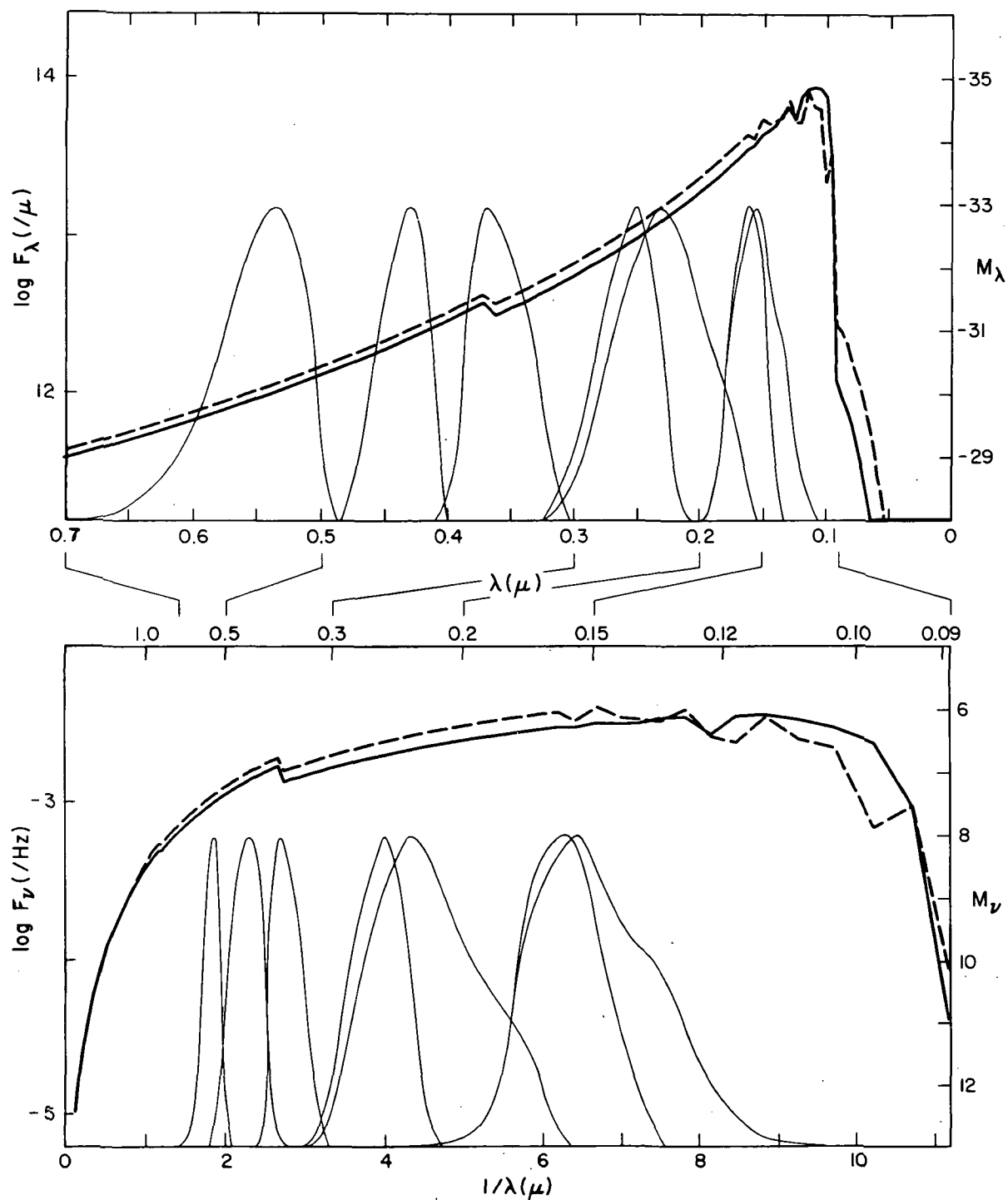


Figure 17. Comparison of the averaged Van Citters and Morton (25200, 4) model (dashed line) to our (25000, 4) model (solid line).

If we make a similar comparison of the (14400, 4) model of Van Citters and Morton, as shown in Figure 18, to our (14000, 4) and (15000, 4) models, Figure 19, we find similar results. Figure 20 shows a (35000, 4) model by Bradley and Morton and is compared to ours in Figure 21.

Mihalas (1972) has recently published a grid of non-LTE atmospheres for B and O stars. His models include a detailed treatment of hydrogen and helium statistical equilibrium but leave out line-blanketing opacity and treat carbon, nitrogen, oxygen, and neon continuous opacity only approximately. Figure 22 shows a comparison of the Mihalas LTE and non-LTE models with our model for (20000, 4). Figure 23 shows a similar comparison for (20000, 3). The differences in the fluxes between his models are very small, much smaller than those between his models and ours, which include more opacity. The non-LTE effects near the main sequence for effective temperatures of 20000 K and lower are limited to the cores of strong lines and to the Lyman continuum. Of course, at lower gravities and higher temperatures, the non-LTE effects must increase. Figure 24 shows the same comparison at (50000, 4.5). Again, the effects of the increased opacity are larger than those of the non-LTE treatment, except in the Lyman continuum (and line cores). Further work is necessary to determine the consequences of including both the increased opacities and a non-LTE treatment.

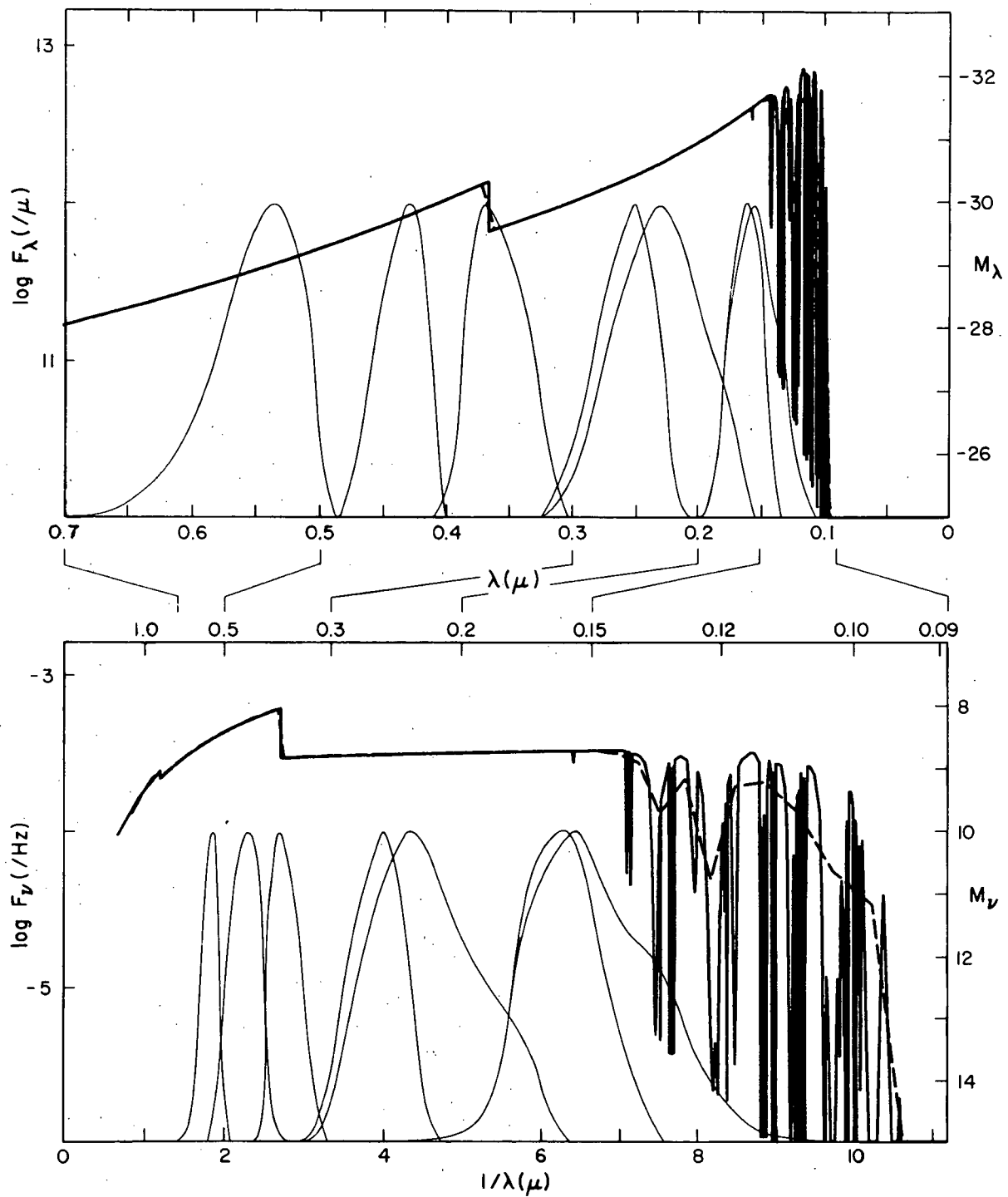


Figure 18. The Van Citters and Morton (14400, 4) model (solid line) averaged over our distribution function intervals (dashed line).

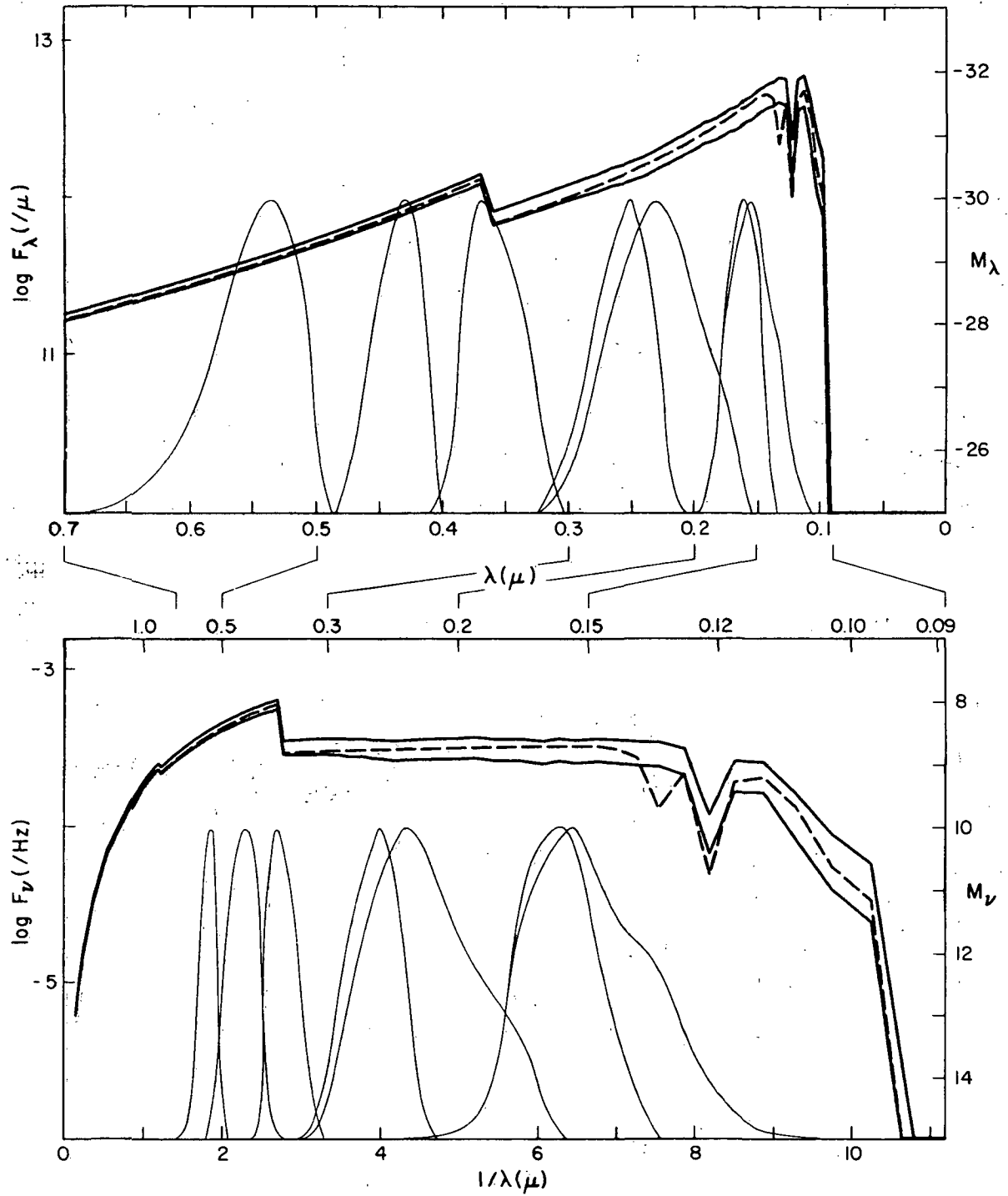


Figure 19. Comparison of the averaged Van Citters and Morton (14400, 4) model (dashed line) to our (14000, 4) and (15000, 4) models (solid lines).

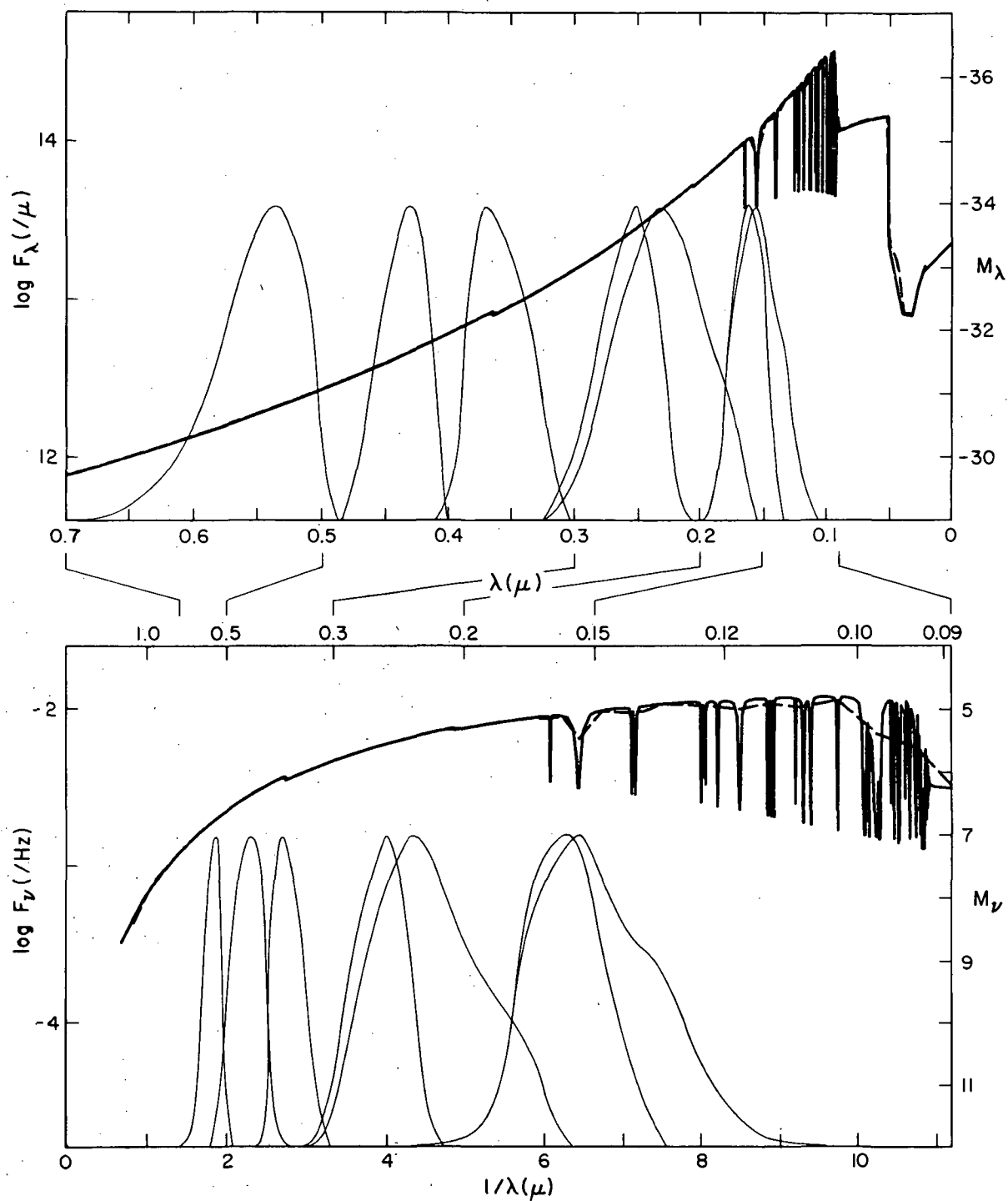


Figure 20. The Bradley and Morton (35000, 4) model (solid line) averaged over our distribution function intervals (dashed line).

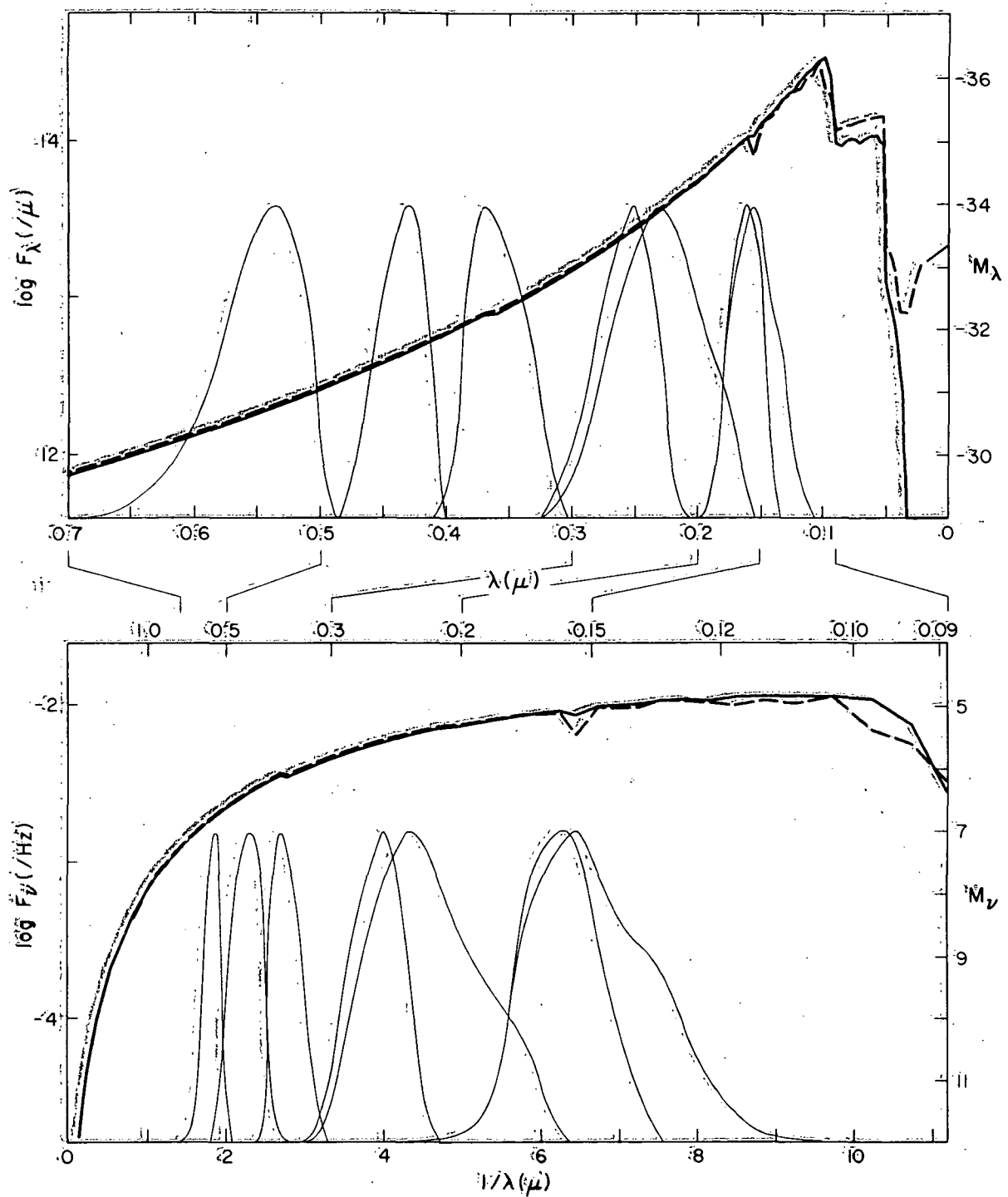


Figure 21. Comparison of the averaged Bradley and Morton (35000, 4) model (dashed line) with our (35000, 4) model (solid line).

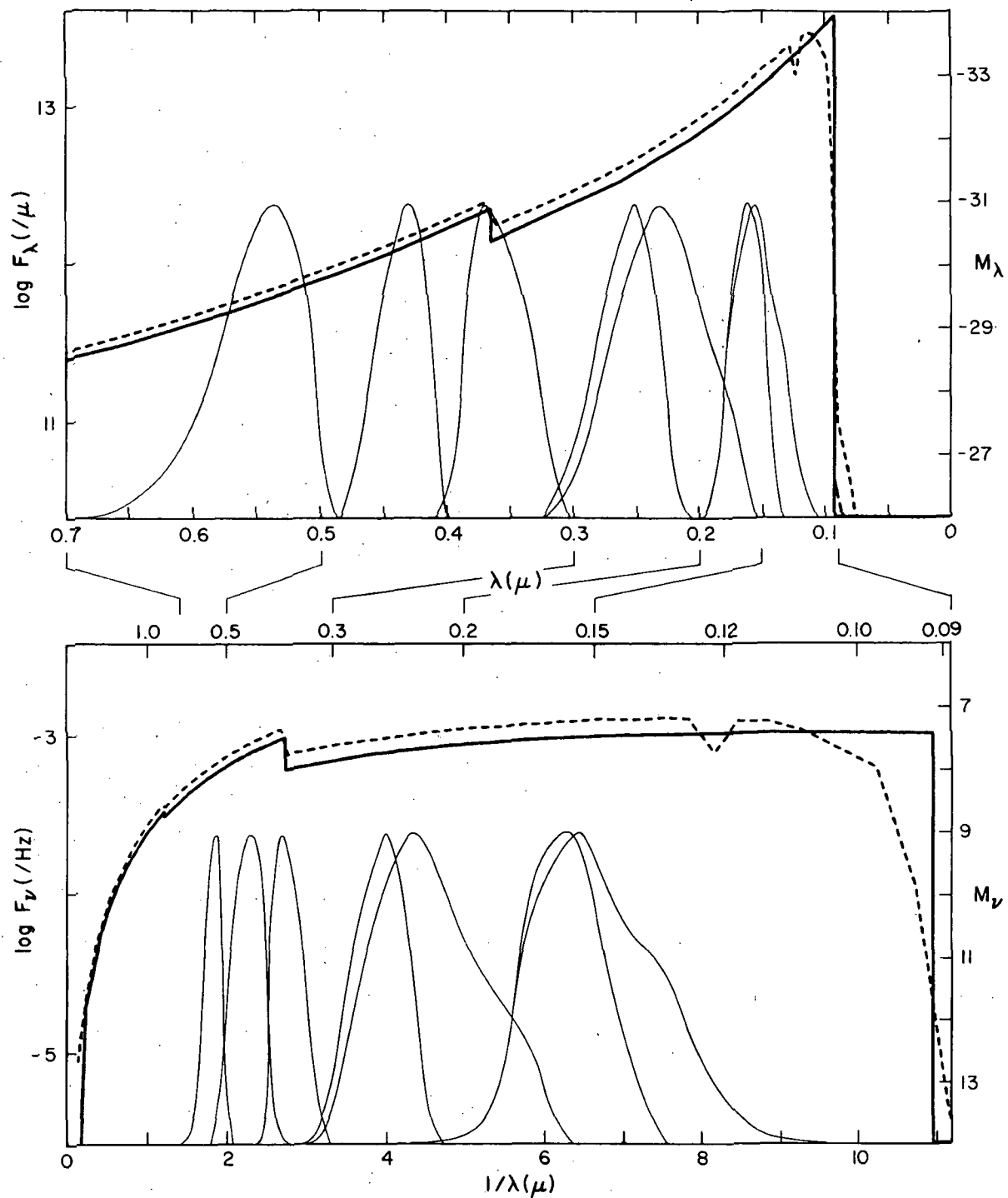


Figure 22. Comparison of the Mihalas (20000, 4) non-LTE model (solid line), LTE model (long dashed line), and our (20000, 4) model (short dashed line).

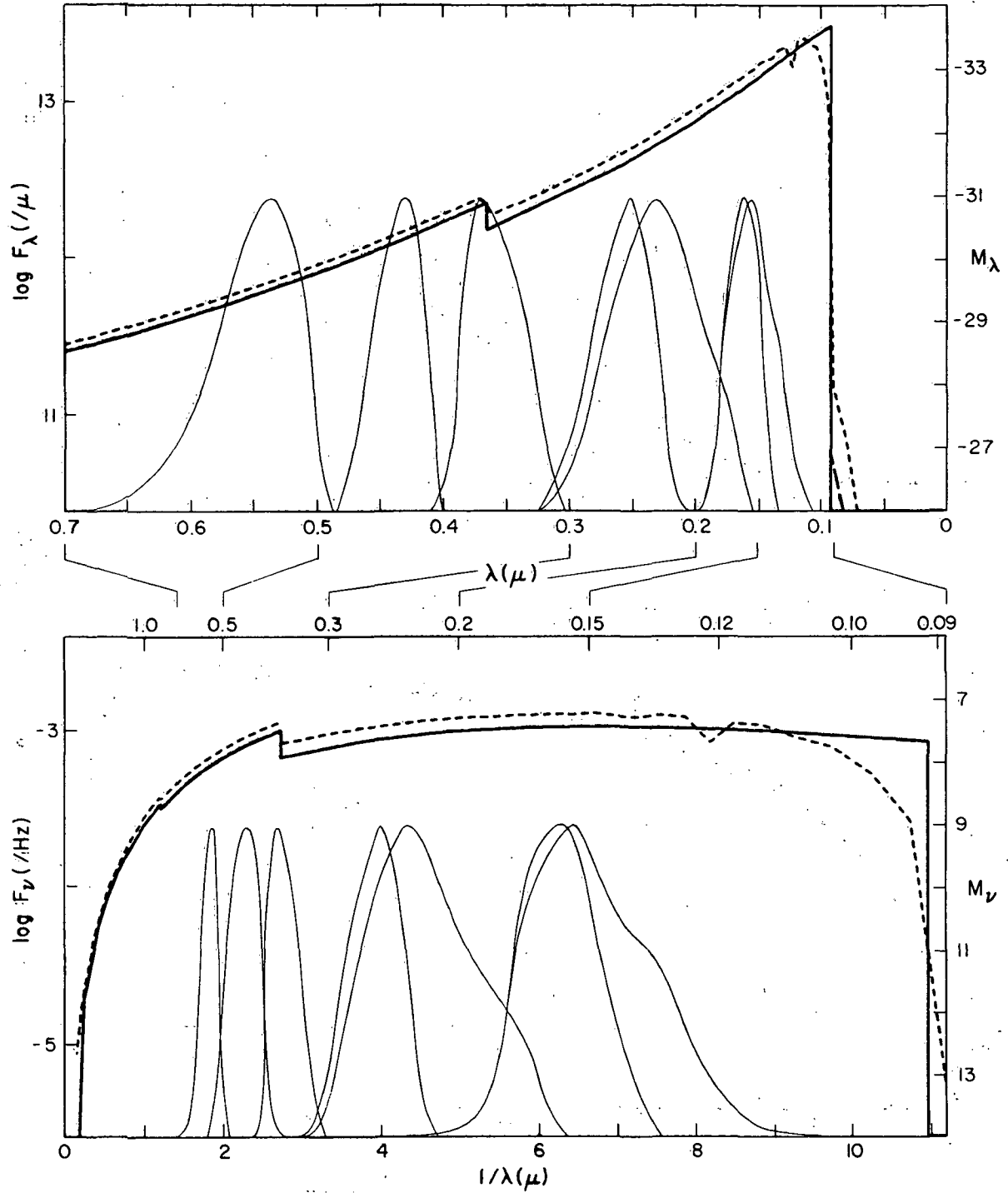


Figure 23. Comparison of the Mihalas (20000, 3) non-LTE model (solid line), LTE model (long dashed line), and our (20000, 3) model (short dashed line).



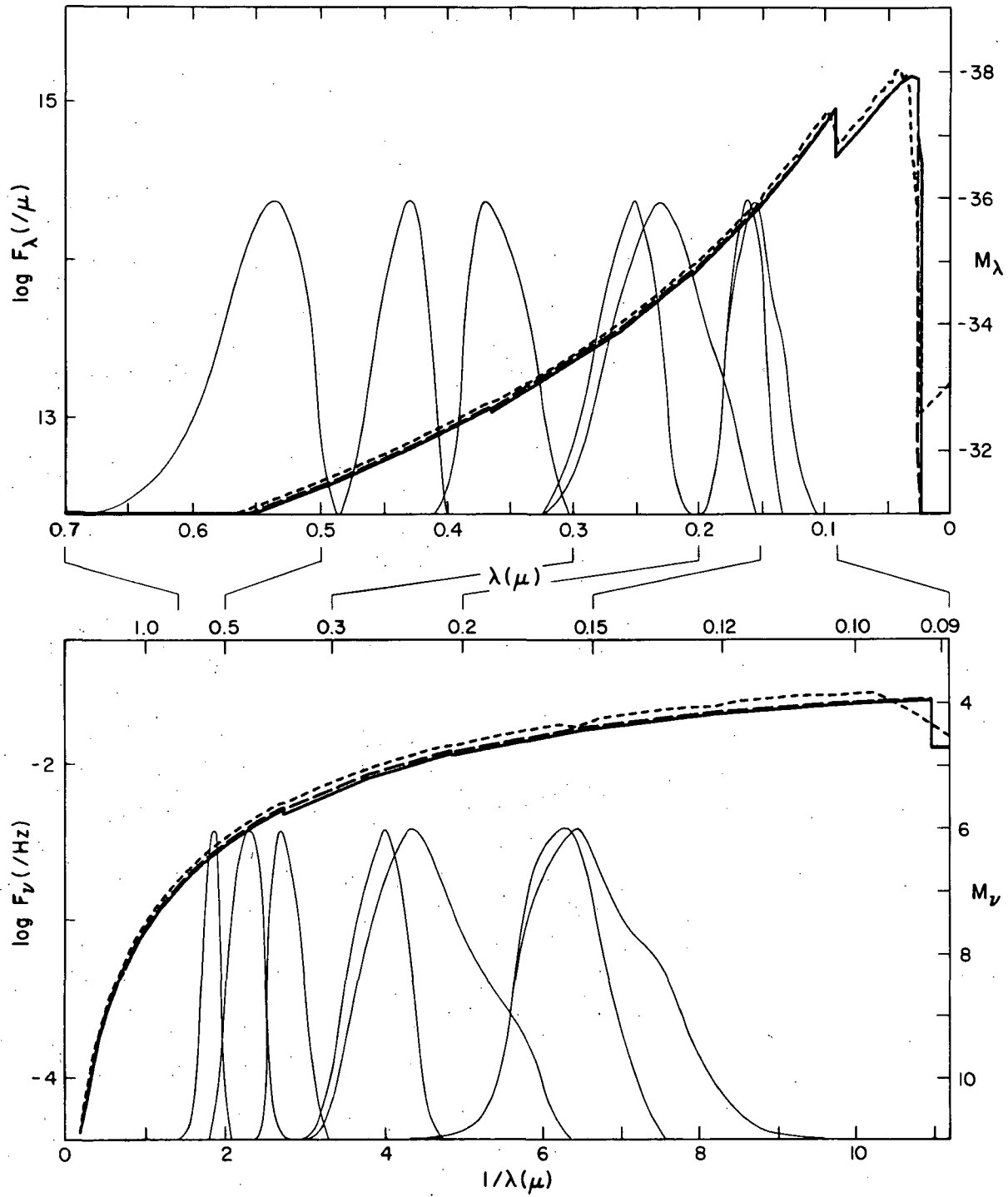


Figure 24. Comparison of the Mihalas (50000, 4.5) non-LTE model (solid line), LTE model (long dashed line), and our (50000, 4.5) model (short dashed line).

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Table 1. Temperature distributions.

Here we present the temperature distributions and related functions of depth for 92 models with the effective temperatures and surface gravities listed below. Solar abundances and a microturbulence of  $2 \text{ km sec}^{-1}$  have been assumed for all models.

	log g						
	2.0	2.5	3.0	3.5	4.0	4.5	5.0
T <sub>eff</sub>	8000	x	x	x	x	x	
	8500	x	x	x	x	x	
	9000	x	x	x	x	x	
	9500	x	x	x	x	x	
	10000	x	x	x	x	x	
	11000	x	x	x	x	x	
	12000	x	x	x	x	x	
	13000	x	x	x	x	x	
	14000	x	x	x	x	x	
	15000	x	x	x	x	x	
	16000	x	x	x	x	x	
	18000			x	x	x	
	20000			x	x	x	
	25000			x	x	x	x
	30000			x	x	x	x
	35000			x	x	x	x
	40000					x	x
	45000					x	x
	50000					x	x

For each of 40 depths we tabulate  $\tau_{\text{Ross}}$ , the mass parameter defined by equation (5), the geometrical depth measured in kilometers from the outermost point, the temperature  $T$ , the gas pressure  $P$ , the density  $\rho$ , and the atomic and electron number densities  $n_A$  and  $n_e$ . Also we list the values of  $\text{ion(H)}$  and  $\text{ion(He)}$ , which represent the number of electrons produced per hydrogen atom and per helium atom. Thus,  $\text{ion(H)}$  varies from 0 to 1, while  $\text{ion(He)}$  varies from 0 to 2, thereby indicating the degree of ionization. Finally, we list  $\log g_{\text{rad}}$ , where  $g_{\text{rad}}$  is the acceleration due to radiation pressure, and the Rosseland mass absorption coefficient  $\kappa_{\text{Ross}}$ . Except for geometrical depth  $x$ , which is in kilometers, all other quantities are given in CGS units.



TEFF = 8000

LOG G = 2.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	6.455-03	4240.5	6.456-01	2.427-12	1.102+12	2.982+08	.000159	.000000	-.7932	1.736-04
2	4.642-05	3.096+04	1.675-02	5408.0	1.672+00	4.880-12	2.215+12	2.090+10	.010125	.000000	-.4970	4.612-03
3	6.813-05	3.406+04	2.118-02	5470.9	2.114+00	6.095-12	2.767+12	2.778+10	.010795	.000000	-.4904	5.155-03
4	1.000-04	4.764+04	2.702-02	5533.7	2.696+00	7.683-12	3.488+12	3.686+10	.011397	.000000	-.4817	5.761-03
5	1.468-04	5.648+04	3.467-02	5595.9	3.459+00	9.744-12	4.424+12	4.890+10	.011933	.000000	-.4693	6.458-03
6	2.154-04	6.551+04	4.465-02	5658.6	4.452+00	1.240-11	5.630+12	6.490+10	.012457	.000000	-.4530	7.290-03
7	3.162-04	7.470+04	5.755-02	5722.5	5.738+00	1.580-11	7.172+12	8.612+10	.012991	.000000	-.4331	8.310-03
8	4.642-04	8.396+04	7.408-02	5787.4	7.384+00	2.009-11	9.122+12	1.141+11	.013545	.000000	-.4097	9.571-03
9	6.813-04	9.321+04	9.504-02	5853.1	9.473+00	2.547-11	1.157+13	1.506+11	.014124	.000000	-.3818	1.113-02
10	1.000-03	1.024+05	1.214-01	5919.8	1.210+01	3.214-11	1.459+13	1.982+11	.014750	.000000	-.3481	1.307-02
11	1.468-03	1.115+05	1.541-01	5988.1	1.535+01	4.030-11	1.830+13	2.602+11	.015454	.000000	-.3085	1.554-02
12	2.154-03	1.204+05	1.942-01	6058.4	1.934+01	5.017-11	2.278+13	3.408+11	.016280	.000000	-.2628	1.867-02
13	3.162-03	1.291+05	2.430-01	6132.2	2.419+01	6.193-11	2.812+13	4.463+11	.017295	.000000	-.2091	2.272-02
14	4.642-03	1.376+05	3.013-01	6211.2	2.998+01	7.570-11	3.437+13	5.855+11	.018620	.000000	-.1421	2.811-02
15	6.813-03	1.458+05	3.693-01	6304.3	3.673+01	9.116-11	4.139+13	7.831+11	.020680	.000000	-.0687	3.584-02
16	1.000-02	1.535+05	4.464-01	6412.0	4.437+01	1.080-10	4.903+13	1.064+12	.023738	.000000	-.0261	4.672-02
17	1.468-02	1.610+05	5.342-01	6515.5	5.307+01	1.268-10	5.756+13	1.412+12	.026884	.000000	.0071	5.963-02
18	2.154-02	1.685+05	6.362-01	6611.6	6.316+01	1.483-10	6.734+13	1.835+12	.029907	.000000	.0507	7.493-02
19	3.162-02	1.759+05	7.555-01	6708.9	7.494+01	1.730-10	7.853+13	2.374+12	.033222	.000000	.1076	9.430-02
20	4.642-02	1.833+05	8.939-01	6813.2	8.859+01	2.006-10	9.109+13	3.086+12	.037276	.000000	.1789	1.203-01
21	6.813-02	1.907+05	1.052+00	6931.1	1.041+02	2.307-10	1.047+14	4.065+12	.042759	.000000	.2674	1.572-01
22	1.000-01	1.977+05	1.226+00	7069.0	1.211+02	2.614-10	1.187+14	5.456+12	.050729	.000000	.3760	2.128-01
23	1.468-01	2.044+05	1.410+00	7234.4	1.390+02	2.902-10	1.317+14	7.500+12	.062848	.000000	.5079	3.017-01
24	2.154-01	2.105+05	1.595+00	7439.7	1.568+02	3.130-10	1.421+14	1.062+13	.082594	.000000	.6703	4.554-01
25	3.162-01	2.160+05	1.768+00	7693.5	1.732+02	3.251-10	1.476+14	1.545+13	.115795	.000000	.8641	7.370-01
26	4.642-01	2.207+05	1.921+00	7998.8	1.870+02	3.230-10	1.466+14	2.268+13	.171416	.000000	1.0739	1.250+00
27	6.813-01	2.248+05	2.052+00	8365.0	1.981+02	3.044-10	1.382+14	3.303+13	.265681	.000000	1.2896	2.180+00
28	1.000+00	2.286+05	2.163+00	8804.3	2.064+02	2.736-10	1.242+14	4.620+13	.413985	.000002	1.4877	3.588+00
29	1.468+00	2.328+05	2.267+00	9334.0	2.130+02	2.338-10	1.061+14	5.929+13	.620799	.000010	1.6388	5.293+00
30	2.154+00	2.384+05	2.387+00	9956.7	2.194+02	2.025-10	9.193+13	6.766+13	.818161	.000056	1.6816	6.015+00
31	3.162+00	2.475+05	2.564+00	10680.3	2.292+02	1.861-10	8.450+13	7.077+13	.931141	.000381	1.6156	5.264+00
32	4.642+00	2.649+05	2.885+00	11519.2	2.497+02	1.841-10	8.356+13	7.349+13	.975093	.002888	1.4995	4.066+00
33	6.813+00	2.973+05	3.502+00	12492.9	2.945+02	1.987-10	9.021+13	8.054+13	.989347	.020024	1.3826	3.105+00
34	1.000+01	3.504+05	4.649+00	13604.1	3.844+02	2.366-10	1.074+14	9.729+13	.993859	.110086	1.2935	2.537+00
35	1.468+01	4.239+05	6.618+00	14863.8	5.452+02	3.025-10	1.373+14	1.283+14	.995398	.387374	1.2410	2.254+00
36	2.154+01	5.143+05	9.783+00	16270.4	8.087+02	4.025-10	1.827+14	1.773+14	.995966	.733439	1.2096	2.103+00
37	3.162+01	6.188+05	1.472+01	17838.1	1.225+03	5.509-10	2.501+14	2.472+14	.996192	.913656	1.1861	1.994+00
38	4.642+01	7.350+05	2.228+01	19574.7	1.867+03	7.630-10	3.464+14	3.445+14	.996276	.973005	1.1706	1.928+00
39	6.813+01	8.612+05	3.364+01	21508.8	2.836+03	1.054-09	4.785+14	4.768+14	.996307	.991048	1.1635	1.903+00
40	1.000+02	9.936+05	5.032+01	23636.9	4.264+03	1.441-09	6.542+14	6.522+14	.996316	.996767	1.1583	1.931+00

TEFF = 8000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	7.548-03	4266.1	2.387+00	8.919-12	4.049+12	7.407+08	.000081	.000000	-.7473	1.560-04
2	4.642-05	9.542+03	1.897-02	5485.0	5.996+00	1.731-11	7.856+12	4.938+10	.006674	.000000	-.4238	4.355-03
3	6.813-05	1.194+04	2.359-02	5545.6	7.453+00	2.127-11	9.655+12	6.442+10	.007103	.000000	-.4149	5.023-03
4	1.000-04	1.444+04	2.947-02	5605.6	9.312+00	2.628-11	1.193+13	8.372+10	.007490	.000000	-.4029	5.803-03
5	1.468-04	1.699+04	3.694-02	5665.1	1.167+01	3.259-11	1.480+13	1.085+11	.007847	.000000	-.3864	6.738-03
6	2.154-04	1.957+04	4.633-02	5724.5	1.463+01	4.043-11	1.836+13	1.405+11	.008197	.000000	-.3665	7.873-03
7	3.162-04	2.217+04	5.807-02	5784.3	1.834+01	5.015-11	2.277+13	1.814+11	.008545	.000000	-.3435	9.263-03
8	4.642-04	2.478+04	7.268-02	5844.5	2.296+01	6.210-11	2.819+13	2.335+11	.008898	.000000	-.3169	1.097-02
9	6.813-04	2.739+04	9.074-02	5905.2	2.866+01	7.670-11	3.482+13	2.998+11	.009264	.000000	-.2861	1.307-02
10	1.000-03	3.000+04	1.129-01	5967.2	3.565+01	9.441-11	4.286+13	3.844+11	.009663	.000000	-.2510	1.569-02
11	1.468-03	3.258+04	1.399-01	6030.7	4.418+01	1.157-10	5.253+13	4.922+11	.010109	.000000	-.2112	1.896-02
12	2.154-03	3.513+04	1.726-01	6096.2	5.450+01	1.411-10	6.407+13	6.298+11	.010619	.000000	-.1655	2.307-02
13	3.162-03	3.765+04	2.119-01	6165.0	6.689+01	1.712-10	7.772+13	8.073+11	.011239	.000000	-.1112	2.833-02
14	4.642-03	4.013+04	2.585-01	6239.3	8.160+01	2.062-10	9.362+13	1.040+12	.012061	.000000	-.0416	3.524-02
15	6.813-03	4.253+04	3.125-01	6331.6	9.858+01	2.451-10	1.113+14	1.380+12	.013468	.000000	.0232	4.528-02
16	1.000-02	4.483+04	3.737-01	6435.1	1.179+02	2.880-10	1.307+14	1.845+12	.015361	.000000	.0573	5.869-02
17	1.468-02	4.708+04	4.439-01	6532.5	1.400+02	3.364-10	1.527+14	2.411+12	.017207	.000000	.0911	7.440-02
18	2.154-02	4.933+04	5.258-01	6625.6	1.658+02	3.921-10	1.780+14	3.106+12	.019052	.000000	.1349	9.340-02
19	3.162-02	5.159+04	6.215-01	6720.3	1.959+02	4.561-10	2.071+14	3.992+12	.021086	.000000	.1902	1.174-01
20	4.642-02	5.386+04	7.327-01	6821.9	2.309+02	5.284-10	2.399+14	5.161+12	.023565	.000000	.2592	1.491-01
21	6.813-02	5.610+04	8.600-01	6936.2	2.709+02	6.080-10	2.760+14	6.761+12	.026886	.000000	.3440	1.937-01
22	1.000-01	5.829+04	1.002+00	7069.8	3.154+02	6.916-10	3.140+14	9.046+12	.031656	.000000	.4479	2.594-01
23	1.468-01	6.037+04	1.154+00	7230.4	3.631+02	7.734-10	3.511+14	1.241+13	.038904	.000000	.5751	3.626-01
24	2.154-01	6.229+04	1.309+00	7428.4	4.115+02	8.445-10	3.834+14	1.760+13	.050598	.000000	.7310	5.374-01
25	3.162-01	6.399+04	1.457+00	7678.5	4.573+02	8.923-10	4.051+14	2.595+13	.070762	.000000	.9231	8.608-01
26	4.642-01	6.544+04	1.589+00	7981.7	4.974+02	9.072-10	4.119+14	3.910+13	.105004	.000000	1.1392	1.466+00
27	6.813-01	6.668+04	1.700+00	8338.6	5.305+02	8.837-10	4.012+14	5.899+13	.163034	.000000	1.3622	2.581+00
28	1.000+00	6.774+04	1.791+00	8769.4	5.565+02	8.170-10	3.709+14	8.821+13	.264603	.000001	1.5974	4.651+00
29	1.468+00	6.872+04	1.866+00	9292.8	5.763+02	7.110-10	3.228+14	1.255+14	.431847	.000005	1.8158	7.981+00
30	2.154+00	6.982+04	1.937+00	9911.4	5.931+02	6.007-10	2.727+14	1.598+14	.651885	.000024	1.9531	1.126+01
31	3.162+00	7.137+04	2.024+00	10645.9	6.127+02	5.210-10	2.365+14	1.794+14	.843106	.000139	1.9587	1.164+01
32	4.642+00	7.419+04	2.164+00	11495.0	6.455+02	4.843-10	2.198+14	1.866+14	.942280	.001083	1.8638	9.412+00
33	6.813+00	7.981+04	2.436+00	12481.7	7.145+02	4.852-10	2.203+14	1.942+14	.978452	.008285	1.7275	6.841+00
34	1.000+01	9.057+04	2.982+00	13604.9	8.626+02	5.333-10	2.421+14	2.171+14	.989789	.052776	1.5948	5.066+00
35	1.468+01	1.082+05	4.015+00	14865.2	1.153+03	6.453-10	2.930+14	2.688+14	.993418	.232720	1.5052	4.140+00
36	2.154+01	1.322+05	5.772+00	16273.2	1.656+03	8.310-10	3.773+14	3.597+14	.994711	.576568	1.4592	3.735+00
37	3.162+01	1.611+05	8.564+00	17837.1	2.461+03	1.112-09	5.047+14	4.947+14	.995226	.840877	1.4317	3.511+00
38	4.642+01	1.943+05	1.289+01	19578.2	3.716+03	1.521-09	6.906+14	6.845+14	.995445	.947959	1.4097	3.343+00
39	6.813+01	2.310+05	1.948+01	21509.2	5.631+03	2.094-09	9.506+14	9.457+14	.995536	.982397	1.3993	3.275+00
40	1.000+02	2.699+05	2.920+01	23638.7	8.464+03	2.862-09	1.299+15	1.294+15	.995576	.993569	1.3931	3.310+00

TEFF = 8000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	7.195-03	4312.6	7.196+00	2.661-11	1.208+13	1.779+09	.000050	.000000	-.6714	1.817-04
2	4.642-05	3.058+03	1.835-02	5531.7	1.835+01	5.267-11	2.391+13	9.742+10	.004269	.000000	-.3415	4.745-03
3	6.813-05	3.801+03	2.252-02	5590.3	2.251+01	6.392-11	2.902+13	1.255+11	.004544	.000000	-.3264	5.645-03
4	1.000-04	4.529+03	2.766-02	5648.2	2.765+01	7.769-11	3.527+13	1.608+11	.004804	.000000	-.3099	6.725-03
5	1.468-04	5.271+03	3.400-02	5705.8	3.399+01	9.452-11	4.291+13	2.053+11	.005055	.000000	-.2912	8.032-03
6	2.154-04	6.020+03	4.179-02	5763.0	4.178+01	1.150-10	5.222+13	2.612+11	.005297	.000000	-.2702	9.616-03
7	3.162-04	6.770+03	5.133-02	5819.4	5.130+01	1.398-10	6.349+13	3.306+11	.005528	.000000	-.2463	1.153-02
8	4.642-04	7.524+03	6.298-02	5875.9	6.295+01	1.699-10	7.713+13	4.175+11	.005756	.000000	-.2188	1.386-02
9	6.813-04	8.282+03	7.718-02	5933.2	7.715+01	2.062-10	9.360+13	5.266+11	.005993	.000000	-.1874	1.672-02
10	1.000-03	9.041+03	9.443-02	5991.7	9.438+01	2.497-10	1.134+14	6.638+11	.006249	.000000	-.1522	2.025-02
11	1.468-03	9.800+03	1.153-01	6052.3	1.153+02	3.017-10	1.370+14	8.376+11	.006536	.000000	-.1107	2.466-02
12	2.154-03	1.056+04	1.403-01	6115.2	1.403+02	3.634-10	1.650+14	1.058+12	.006867	.000000	-.0628	3.018-02
13	3.162-03	1.131+04	1.703-01	6181.9	1.702+02	4.360-10	1.980+14	1.341+12	.007265	.000000	-.0072	3.721-02
14	4.642-03	1.205+04	2.058-01	6254.3	2.056+02	5.205-10	2.363+14	1.710+12	.007791	.000000	.0625	4.639-02
15	6.813-03	1.278+04	2.469-01	6344.4	2.467+02	6.149-10	2.792+14	2.248+12	.008687	.000000	.1214	5.941-02
16	1.000-02	1.348+04	2.939-01	6443.3	2.936+02	7.201-10	3.269+14	2.971+12	.009827	.000000	.1523	7.615-02
17	1.468-02	1.418+04	3.482-01	6537.2	3.479+02	8.400-10	3.814+14	3.856+12	.010959	.000000	.1860	9.610-02
18	2.154-02	1.488+04	4.117-01	6628.0	4.112+02	9.785-10	4.442+14	4.950+12	.012099	.000000	.2287	1.202-01
19	3.162-02	1.558+04	4.861-01	6720.9	4.855+02	1.138-09	5.167+14	6.346+12	.013359	.000000	.2821	1.506-01
20	4.642-02	1.629+04	5.730-01	6820.4	5.723+02	1.320-09	5.993+14	8.182+12	.014878	.000000	.3478	1.903-01
21	6.813-02	1.699+04	6.731-01	6931.8	6.721+02	1.523-09	6.913+14	1.069+13	.016884	.000000	.4284	2.451-01
22	1.000-01	1.769+04	7.857-01	7061.6	7.844+02	1.740-09	7.900+14	1.427+13	.019749	.000000	.5268	3.243-01
23	1.468-01	1.835+04	9.084-01	7217.7	9.066+02	1.960-09	8.899+14	1.954+13	.024062	.000000	.6474	4.460-01
24	2.154-01	1.897+04	1.036+00	7410.8	1.033+03	2.163-09	9.819+14	2.772+13	.031011	.000000	.7960	6.473-01
25	3.162-01	1.952+04	1.160+00	7654.2	1.156+03	2.320-09	1.053+15	4.103+13	.042909	.000000	.9793	1.010+00
26	4.642-01	2.000+04	1.273+00	7954.6	1.268+03	2.404-09	1.091+15	6.281+13	.063511	.000000	1.1918	1.690+00
27	6.813-01	2.040+04	1.370+00	8315.5	1.363+03	2.396-09	1.088+15	9.797+13	.099549	.000000	1.4238	2.997+00
28	1.000+00	2.073+04	1.448+00	8747.0	1.438+03	2.280-09	1.035+15	1.532+14	.163954	.000001	1.6731	5.568+00
29	1.468+00	2.101+04	1.509+00	9261.3	1.495+03	2.058-09	9.344+14	2.334+14	.278506	.000002	1.9249	1.032+01
30	2.154+00	2.127+04	1.559+00	9879.3	1.539+03	1.753-09	7.959+14	3.312+14	.461708	.000012	2.1350	1.714+01
31	3.162+00	2.160+04	1.609+00	10613.7	1.581+03	1.467-09	6.660+14	4.113+14	.690149	.000065	2.2326	2.182+01
32	4.642+00	2.210+04	1.679+00	11474.1	1.640+03	1.279-09	5.806+14	4.508+14	.865351	.000428	2.2067	2.067+01
33	6.813+00	2.308+04	1.798+00	12469.5	1.742+03	1.199-09	5.442+14	4.683+14	.952249	.003402	2.0870	1.566+01
34	1.000+01	2.512+04	2.044+00	13598.9	1.964+03	1.221-09	5.545+14	4.912+14	.981101	.024457	1.9275	1.089+01
35	1.468+01	2.901+04	2.547+00	14862.7	2.430+03	1.370-09	6.221+14	5.624+14	.989885	.127567	1.7982	8.120+00
36	2.154+01	3.515+04	3.477+00	16272.1	3.308+03	1.676-09	7.610+14	7.114+14	.992812	.408081	1.7227	6.849+00
37	3.162+01	4.322+04	5.021+00	17836.3	4.774+03	2.169-09	9.849+14	9.536+14	.993926	.732960	1.6845	6.285+00
38	4.642+01	5.290+04	7.460+00	19581.8	7.099+03	2.912-09	1.322+15	1.304+15	.994406	.905615	1.6564	5.899+00
39	6.813+01	6.387+04	1.120+01	21510.1	1.068+04	3.975-09	1.805+15	1.791+15	.994619	.967234	1.6433	5.743+00
40	1.000+02	7.557+04	1.674+01	23639.3	1.597+04	5.403-09	2.453+15	2.440+15	.994725	.987962	1.6393	5.847+00

TEFF = 8000

LOG G = 3.5

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	6.296-03	4378.9	1.991+01	7.251-11	3.292+13	4.321+09	.000037	.000000	-.5539	2.643-04
2	4.642-05	9.140+02	1.506-02	5565.5	4.762+01	1.360-10	6.175+13	1.731+11	.002893	.000000	-.2337	6.022-03
3	6.813-05	1.131+03	1.831-02	5623.1	5.789+01	1.636-10	7.428+13	2.209+11	.003079	.000000	-.2178	7.298-03
4	1.000-04	1.350+03	2.225-02	5679.4	7.036+01	1.969-10	8.939+13	2.799+11	.003254	.000000	-.2013	8.826-03
5	1.468-04	1.573+03	2.706-02	5735.1	8.556+01	2.371-10	1.076+14	3.530+11	.003421	.000000	-.1828	1.067-02
6	2.154-04	1.798+03	3.290-02	5789.8	1.040+02	2.855-10	1.296+14	4.433+11	.003578	.000000	-.1610	1.288-02
7	3.162-04	2.024+03	3.998-02	5843.9	1.264+02	3.437-10	1.560+14	5.546+11	.003728	.000000	-.1339	1.557-02
8	4.642-04	2.251+03	4.858-02	5898.7	1.536+02	4.137-10	1.878+14	6.934+11	.003880	.000000	-.1031	1.884-02
9	6.813-04	2.481+03	5.900-02	5954.6	1.865+02	4.976-10	2.259+14	8.669+11	.004042	.000000	-.0693	2.287-02
10	1.000-03	2.711+03	7.157-02	6012.0	2.263+02	5.978-10	2.714+14	1.084+12	.004218	.000000	-.0325	2.783-02
11	1.468-03	2.942+03	8.672-02	6071.1	2.741+02	7.172-10	3.256+14	1.357+12	.004409	.000000	.0083	3.395-02
12	2.154-03	3.174+03	1.049-01	6132.0	3.317+02	8.589-10	3.900+14	1.699+12	.004620	.000000	.0543	4.153-02
13	3.162-03	3.405+03	1.267-01	6196.3	4.006+02	1.026-09	4.659+14	2.137+12	.004872	.000000	.1079	5.108-02
14	4.642-03	3.636+03	1.526-01	6265.6	4.825+02	1.222-09	5.548+14	2.702+12	.005195	.000000	.1751	6.336-02
15	6.813-03	3.864+03	1.828-01	6353.0	5.780+02	1.443-09	6.549+14	3.526+12	.005758	.000000	.2263	8.048-02
16	1.000-02	4.087+03	2.177-01	6446.9	6.883+02	1.692-09	7.683+14	4.617+12	.006445	.000000	.2562	1.020-01
17	1.468-02	4.309+03	2.585-01	6536.9	8.170+02	1.980-09	8.989+14	5.954+12	.007123	.000000	.2899	1.277-01
18	2.154-02	4.532+03	3.063-01	6625.7	9.681+02	2.314-09	1.050+15	7.626+12	.007826	.000000	.3324	1.591-01
19	3.162-02	4.757+03	3.627-01	6717.6	1.146+03	2.700-09	1.226+15	9.773+12	.008617	.000000	.3856	1.988-01
20	4.642-02	4.983+03	4.286-01	6816.4	1.355+03	3.141-09	1.426+15	1.261+13	.009576	.000000	.4500	2.506-01
21	6.813-02	5.208+03	5.048-01	6926.3	1.596+03	3.637-09	1.651+15	1.646+13	.010824	.000000	.5279	3.205-01
22	1.000-01	5.430+03	5.913-01	7053.5	1.869+03	4.177-09	1.896+15	2.194+13	.012592	.000000	.6217	4.202-01
23	1.468-01	5.644+03	6.868-01	7205.7	2.170+03	4.737-09	2.151+15	2.999+13	.015215	.000000	.7358	5.686-01
24	2.154-01	5.847+03	7.879-01	7392.8	2.489+03	5.276-09	2.395+15	4.245+13	.019396	.000000	.8751	8.067-01
25	3.162-01	6.031+03	8.893-01	7628.3	2.809+03	5.733-09	2.603+15	6.276+13	.026472	.000000	1.0463	1.221+00
26	4.642-01	6.191+03	9.839-01	7926.4	3.106+03	6.034-09	2.739+15	9.722+13	.039071	.000000	1.2534	1.998+00
27	6.813-01	6.326+03	1.066+00	8286.9	3.364+03	6.131-09	2.784+15	1.545+14	.061267	.000000	1.4833	3.483+00
28	1.000+00	6.437+03	1.134+00	8714.7	3.575+03	5.989-09	2.719+15	2.484+14	.101004	.000000	1.7311	6.406+00
29	1.468+00	6.527+03	1.186+00	9229.4	3.738+03	5.569-09	2.528+15	3.984+14	.174593	.000001	1.9975	1.224+01
30	2.154+00	6.604+03	1.227+00	9843.0	3.860+03	4.894-09	2.222+15	6.133+14	.308004	.000006	2.2564	2.273+01
31	3.162+00	6.681+03	1.261+00	10578.0	3.960+03	4.071-09	1.848+15	8.569+14	.513361	.000028	2.4432	3.538+01
32	4.642+00	6.791+03	1.300+00	11451.5	4.072+03	3.400-09	1.544+15	1.024+15	.742358	.000193	2.4925	3.980+01
33	6.813+00	6.969+03	1.358+00	12451.0	4.238+03	2.999-09	1.362+15	1.096+15	.894874	.001430	2.4351	3.492+01
34	1.000+01	7.342+03	1.465+00	13579.2	4.554+03	2.864-09	1.300+15	1.129+15	.961590	.010649	2.2788	2.442+01
35	1.468+01	8.141+03	1.698+00	14859.8	5.254+03	2.982-09	1.354+15	1.206+15	.982955	.065056	2.1167	1.688+01
36	2.154+01	9.604+03	2.166+00	16264.8	6.678+03	3.418-09	1.552+15	1.423+15	.989591	.255314	2.0047	1.312+01
37	3.162+01	1.178+04	2.994+00	17839.0	9.220+03	4.224-09	1.918+15	1.826+15	.992014	.590070	1.9460	1.148+01
38	4.642+01	1.456+04	4.336+00	19576.5	1.335+04	5.502-09	2.498+15	2.442+15	.993009	.836359	1.9140	1.069+01
39	6.813+01	1.780+04	6.405+00	21510.4	1.973+04	7.358-09	3.340+15	3.303+15	.993476	.941320	1.9004	1.038+01
40	1.000+02	2.135+04	9.479+00	23637.2	2.920+04	9.894-09	4.492+15	4.459+15	.993708	.978220	1.8927	1.047+01

TEFF = 8000

LOG G = 4.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	5.060-03	4450.2	5.060+01	1.813-10	8.233+13	1.001+10	.000029	.000000	-.4228	4.401-04
2	4.642-05	2.115+02	1.145-02	5581.0	1.144+02	3.265-10	1.482+14	2.811+11	.001917	.000000	-.1281	8.005-03
3	6.813-05	3.591+02	1.387-02	5639.1	1.387+02	3.915-10	1.778+14	3.580+11	.002046	.000000	-.1071	9.839-03
4	1.000-04	4.071+02	1.679-02	5695.4	1.678+02	4.690-10	2.129+14	4.521+11	.002167	.000000	-.0865	1.203-02
5	1.468-04	4.757+02	2.030-02	5751.0	2.030+02	5.617-10	2.550+14	5.678+11	.002283	.000000	-.0642	1.467-02
6	2.154-04	5.445+02	2.453-02	5805.1	2.453+02	6.723-10	3.052+14	7.095+11	.002393	.000000	-.0398	1.783-02
7	3.162-04	6.138+02	2.963-02	5859.0	2.964+02	8.047-10	3.653+14	8.841+11	.002498	.000000	-.0127	2.164-02
8	4.642-04	6.838+02	3.580-02	5913.2	3.580+02	9.632-10	4.373+14	1.100+12	.002605	.000000	.0174	2.629-02
9	6.813-04	7.544+02	4.326-02	5968.4	4.326+02	1.153-09	5.234+14	1.369+12	.002715	.000000	.0503	3.197-02
10	1.000-03	8.256+02	5.225-02	6024.8	5.225+02	1.379-09	6.262+14	1.703+12	.002832	.000000	.0863	3.891-02
11	1.468-03	8.974+02	6.309-02	6082.5	6.308+02	1.650-09	7.489+14	2.121+12	.002956	.000000	.1261	4.742-02
12	2.154-03	9.697+02	7.614-02	6142.1	7.613+02	1.971-09	8.949+14	2.644+12	.003092	.000000	.1712	5.789-02
13	3.162-03	1.042+03	9.179-02	6204.8	9.178+02	2.352-09	1.068+15	3.308+12	.003251	.000000	.2233	7.098-02
14	4.642-03	1.115+03	1.105-01	6272.7	1.104+03	2.799-09	1.271+15	4.165+12	.003456	.000000	.2906	8.785-02
15	6.813-03	1.187+03	1.323-01	6358.2	1.323+03	3.306-09	1.501+15	5.408+12	.003811	.000000	.3413	1.110-01
16	1.000-02	1.257+03	1.577-01	6449.9	1.577+03	3.883-09	1.763+15	7.056+12	.004248	.000000	.3735	1.400-01
17	1.468-02	1.328+03	1.874-01	6538.1	1.874+03	4.552-09	2.066+15	9.079+12	.004680	.000000	.4092	1.746-01
18	2.154-02	1.399+03	2.225-01	6626.1	2.224+03	5.329-09	2.419+15	1.162+13	.005133	.000000	.4526	2.170-01
19	3.162-02	1.471+03	2.639-01	6716.8	2.638+03	6.233-09	2.830+15	1.488+13	.005636	.000000	.5044	2.700-01
20	4.642-02	1.543+03	3.126-01	6813.7	3.125+03	7.274-09	3.302+15	1.917+13	.006239	.000000	.5661	3.382-01
21	6.813-02	1.615+03	3.693-01	6921.4	3.692+03	8.454-09	3.838+15	2.499+13	.007018	.000000	.6401	4.291-01
22	1.000-01	1.687+03	4.343-01	7045.6	4.341+03	9.756-09	4.429+15	3.321+13	.008110	.000000	.7291	5.563-01
23	1.468-01	1.756+03	5.068-01	7193.8	5.066+03	1.113-08	5.055+15	4.528+13	.009718	.000000	.8364	7.423-01
24	2.154-01	1.822+03	5.851-01	7376.1	5.848+03	1.251-08	5.677+15	6.393+13	.012263	.000000	.9671	1.033+00
25	3.162-01	1.884+03	6.653-01	7605.0	6.650+03	1.374-08	6.237+15	9.430+13	.016531	.000000	1.1271	1.521+00
26	4.642-01	1.938+03	7.424-01	7896.4	7.420+03	1.466-08	6.657+15	1.463+14	.024122	.000000	1.3223	2.412+00
27	6.813-01	1.984+03	8.112-01	8257.4	8.105+03	1.513-08	6.871+15	2.361+14	.037847	.000000	1.5471	4.116+00
28	1.000+00	2.022+03	8.686-01	8690.3	8.677+03	1.506-08	6.838+15	3.891+14	.062831	.000000	1.7943	7.475+00
29	1.468+00	2.052+03	9.138-01	9207.9	9.126+03	1.437-08	6.526+15	6.461+14	.109460	.000001	2.0613	1.426+01
30	2.154+00	2.077+03	9.483-01	9825.8	9.464+03	1.303-08	5.917+15	1.050+15	.197330	.000003	2.3410	2.776+01
31	3.162+00	2.099+03	9.749-01	10558.3	9.723+03	1.114-08	5.057+15	1.606+15	.354492	.000019	2.5783	4.843+01
32	4.642+00	2.124+03	9.992-01	11426.0	9.954+03	9.133-09	4.146+15	2.158+15	.578299	.000092	2.7308	6.884+01
33	6.813+00	2.162+03	1.032+00	12436.7	1.026+04	7.679-09	3.486+15	2.472+15	.793096	.000625	2.7272	6.838+01
34	1.000+01	2.233+03	1.082+00	13581.9	1.074+04	6.893-09	3.129+15	2.600+15	.919791	.004611	2.6342	5.539+01
35	1.468+01	2.387+03	1.186+00	14853.9	1.175+04	6.730-09	3.055+15	2.674+15	.968233	.030538	2.4552	3.689+01
36	2.154+01	2.707+03	1.408+00	16271.7	1.391+04	7.180-09	3.260+15	2.934+15	.983670	.145343	2.3116	2.656+01
37	3.162+01	3.253+03	1.830+00	17832.4	1.805+04	8.358-09	3.795+15	3.540+15	.988916	.424978	2.2265	2.193+01
38	4.642+01	4.019+03	2.545+00	19582.6	2.509+04	1.040-08	4.721+15	4.559+15	.991021	.733890	2.1821	1.983+01
39	6.813+01	4.964+03	3.669+00	21509.1	3.616+04	1.353-08	6.141+15	6.036+15	.991960	.897899	2.1623	1.899+01
40	1.000+02	6.036+03	5.360+00	23640.6	5.284+04	1.792-08	8.136+15	8.054+15	.992431	.961503	2.1499	1.893+01

TEFF = 8000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	3.797-03	4531.9	1.201+02	4.224-10	1.918+14	2.241+10	.000025	.000000	-.2721	8.012-04
2	4.642-05	7.851+01	7.983-03	5602.9	2.525+02	7.171-10	3.256+14	4.505+11	.001369	.000000	.0059	1.139-02
3	6.813-05	1.002+02	9.687-03	5661.5	3.063+02	8.610-10	3.909+14	5.732+11	.001461	.000000	.0270	1.409-02
4	1.000-04	1.219+02	1.172-02	5717.7	3.707+02	1.032-09	4.684+14	7.219+11	.001545	.000000	.0469	1.729-02
5	1.468-04	1.434+02	1.416-02	5772.1	4.478+02	1.234-09	5.605+14	9.029+11	.001622	.000000	.0684	2.111-02
6	2.154-04	1.651+02	1.709-02	5825.4	5.405+02	1.476-09	6.703+14	1.123+12	.001695	.000000	.0919	2.568-02
7	3.162-04	1.870+02	2.063-02	5878.5	6.525+02	1.766-09	8.019+14	1.395+12	.001765	.000000	.1182	3.119-02
8	4.642-04	2.091+02	2.492-02	5931.9	7.879+02	2.114-09	9.596+14	1.729+12	.001835	.000000	.1471	3.786-02
9	6.813-04	2.315+02	3.010-02	5986.2	9.517+02	2.530-09	1.149+15	2.144+12	.001906	.000000	.1795	4.596-02
10	1.000-03	2.541+02	3.635-02	6041.9	1.150+03	3.028-09	1.374+15	2.660+12	.001983	.000000	.2188	5.594-02
11	1.468-03	2.768+02	4.389-02	6099.5	1.388+03	3.620-09	1.644+15	3.306+12	.002068	.000000	.2641	6.825-02
12	2.154-03	2.996+02	5.294-02	6159.6	1.673+03	4.324-09	1.963+15	4.121+12	.002165	.000000	.3134	8.351-02
13	3.162-03	3.226+02	6.377-02	6223.4	2.016+03	5.156-09	2.341+15	5.158+12	.002281	.000000	.3694	1.026-01
14	4.642-03	3.455+02	7.666-02	6293.6	2.424+03	6.127-09	2.782+15	6.525+12	.002437	.000000	.4292	1.271-01
15	6.813-03	3.682+02	9.186-02	6375.4	2.905+03	7.245-09	3.289+15	8.393+12	.002659	.000000	.4684	1.586-01
16	1.000-02	3.910+02	1.098-01	6460.6	3.471+03	8.543-09	3.878+15	1.080+13	.002919	.000000	.4981	1.970-01
17	1.468-02	4.138+02	1.310-01	6543.3	4.143+03	1.007-08	4.570+15	1.376+13	.003171	.000000	.5338	2.431-01
18	2.154-02	4.369+02	1.563-01	6627.3	4.943+03	1.185-08	5.382+15	1.752+13	.003440	.000000	.5769	2.997-01
19	3.162-02	4.603+02	1.864-01	6714.9	5.893+03	1.395-08	6.332+15	2.236+13	.003745	.000000	.6280	3.706-01
20	4.642-02	4.838+02	2.220-01	6809.5	7.018+03	1.638-08	7.434+15	2.876+13	.004117	.000000	.6884	4.616-01
21	6.813-02	5.074+02	2.637-01	6914.9	8.337+03	1.915-08	8.693+15	3.743+13	.004602	.000000	.7601	5.818-01
22	1.000-01	5.306+02	3.118-01	7036.8	9.856+03	2.223-08	1.009+16	4.973+13	.005283	.000000	.8462	7.486-01
23	1.468-01	5.533+02	3.659-01	7183.7	1.157+04	2.554-08	1.159+16	6.789+13	.006308	.000000	.9514	9.919-01
24	2.154-01	5.750+02	4.247-01	7364.0	1.343+04	2.887-08	1.311+16	9.597+13	.007925	.000000	1.0774	1.365+00
25	3.162-01	5.951+02	4.860-01	7588.7	1.537+04	3.198-08	1.452+16	1.415+14	.010601	.000000	1.2287	1.972+00
26	4.642-01	6.132+02	5.463-01	7872.5	1.727+04	3.450-08	1.566+16	2.190+14	.015283	.000000	1.4110	3.036+00
27	6.813-01	6.289+02	6.018-01	8228.2	1.903+04	3.608-08	1.638+16	3.553+14	.023815	.000000	1.6248	5.027+00
28	1.000+00	6.420+02	6.493-01	8660.7	2.053+04	3.647-08	1.656+16	5.947+14	.039575	.000000	1.8651	8.895+00
29	1.468+00	6.526+02	6.876-01	9177.8	2.173+04	3.551-08	1.612+16	1.011+15	.069232	.000000	2.1271	1.666+01
30	2.154+00	6.611+02	7.171-01	9796.6	2.266+04	3.307-08	1.501+16	1.716+15	.126529	.000002	2.4079	3.245+01
31	3.162+00	6.683+02	7.394-01	10531.6	2.336+04	2.917-08	1.324+16	2.793+15	.236500	.000009	2.6759	6.062+01
32	4.642+00	6.751+02	7.577-01	11396.5	2.392+04	2.429-08	1.103+16	4.146+15	.416396	.000039	2.8937	1.002+02
33	6.813+00	6.841+02	7.768-01	12409.0	2.451+04	1.983-08	9.003+15	5.272+15	.654916	.000272	2.9889	1.247+02
34	1.000+01	6.984+02	8.032-01	13558.7	2.532+04	1.691-08	7.675+15	5.816+15	.843954	.001954	2.9496	1.143+02
35	1.468+01	7.282+02	8.509-01	14829.8	2.679+04	1.561-08	7.086+15	6.002+15	.937697	.013284	2.8020	8.200+01
36	2.154+01	7.932+02	9.521-01	16248.4	2.993+04	1.562-08	7.089+15	6.254+15	.971735	.072858	2.6441	5.717+01
37	3.162+01	9.186+02	1.156+00	17822.7	3.632+04	1.700-08	7.716+15	7.042+15	.983478	.270037	2.5259	4.368+01
38	4.642+01	1.119+03	1.524+00	19572.0	4.785+04	2.001-08	9.086+15	8.620+15	.987909	.591922	2.4605	3.768+01
39	6.813+01	1.386+03	2.123+00	21505.9	6.662+04	2.504-08	1.137+16	1.107+16	.989815	.827396	2.4311	3.525+01
40	1.000+02	1.706+03	3.043+00	23634.9	9.547+04	3.246-08	1.474+16	1.452+16	.990735	.932448	2.4125	3.466+01

TEFF = 8500

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.302-03	4713.5	1.300-01	4.386-13	1.991+11	6.648+08	.003394	.000000	-.1252	1.332-03
2	4.642-05	3.008+04	3.608-03	5720.7	3.578-01	9.534-13	4.328+11	2.025+10	.051541	.000000	.1081	1.904-02
3	6.813-05	4.075+04	4.702-03	5787.2	4.658-01	1.224-12	5.559+11	2.709+10	.053674	.000000	.1174	2.055-02
4	1.000-04	5.744+04	6.189-03	5856.4	6.126-01	1.588-12	7.212+11	3.648+10	.055740	.000000	.1268	2.227-02
5	1.468-04	6.857+04	8.202-03	5926.8	8.112-01	2.076-12	9.423+11	4.923+10	.057620	.000000	.1378	2.419-02
6	2.154-04	7.996+04	1.092-02	5996.4	1.079+00	2.726-12	1.237+12	6.634+10	.059146	.000000	.1523	2.629-02
7	3.162-04	9.162+04	1.458-02	6065.8	1.440+00	3.592-12	1.631+12	8.924+10	.060359	.000000	.1721	2.867-02
8	4.642-04	1.035+05	1.950-02	6135.7	1.924+00	4.741-12	2.152+12	1.198+11	.061400	.000000	.1991	3.147-02
9	6.813-04	1.155+05	2.603-02	6207.8	2.566+00	6.244-12	2.835+12	1.607+11	.062688	.000000	.2371	3.498-02
10	1.000-03	1.273+05	3.454-02	6287.8	3.402+00	8.156-12	3.703+12	2.175+11	.064856	.000000	.2852	3.992-02
11	1.468-03	1.389+05	4.525-02	6383.1	4.452+00	1.047-11	4.753+12	2.992+11	.069471	.000000	.3102	4.718-02
12	2.154-03	1.500+05	5.838-02	6484.9	5.738+00	1.321-11	5.998+12	4.128+11	.075976	.000000	.3109	5.706-02
13	3.162-03	1.610+05	7.452-02	6576.3	7.319+00	1.655-11	7.513+12	5.512+11	.081053	.000000	.3176	6.765-02
14	4.642-03	1.718+05	9.455-02	6664.0	9.280+00	2.063-11	9.365+12	7.257+11	.085679	.000000	.3327	8.001-02
15	6.813-03	1.826+05	1.194-01	6749.0	1.171+01	2.562-11	1.163+13	9.457+11	.089887	.000000	.3537	9.451-02
16	1.000-02	1.935+05	1.503-01	6832.0	1.473+01	3.173-11	1.440+13	1.222+12	.093811	.000000	.3815	1.116-01
17	1.468-02	2.043+05	1.887-01	6914.8	1.846+01	3.917-11	1.778+13	1.570+12	.097662	.000000	.4177	1.324-01
18	2.154-02	2.151+05	2.359-01	7000.7	2.306+01	4.813-11	2.185+13	2.016+12	.102058	.000000	.4640	1.584-01
19	3.162-02	2.259+05	2.933-01	7094.0	2.862+01	5.867-11	2.664+13	2.599+12	.107972	.000000	.5219	1.928-01
20	4.642-02	2.365+05	3.617-01	7199.8	3.522+01	7.062-11	3.206+13	3.378+12	.116616	.000000	.5939	2.409-01
21	6.813-02	2.468+05	4.407-01	7323.7	4.278+01	8.344-11	3.788+13	4.441+12	.129783	.000000	.6819	3.112-01
22	1.000-01	2.566+05	5.287-01	7471.8	5.110+01	9.612-11	4.364+13	5.918+12	.150129	.000000	.7878	4.183-01
23	1.468-01	2.658+05	6.226-01	7651.6	5.983+01	1.072-10	4.867+13	7.995+12	.181829	.000000	.9140	5.888-01
24	2.154-01	2.744+05	7.182-01	7874.3	6.847+01	1.147-10	5.206+13	1.094+13	.232893	.000000	1.0616	8.717-01
25	3.162-01	2.825+05	8.119-01	8149.3	7.654+01	1.169-10	5.308+13	1.500+13	.313113	.000000	1.2202	1.321+00
26	4.642-01	2.903+05	9.027-01	8476.2	8.383+01	1.138-10	5.165+13	2.007+13	.431338	.000001	1.3728	1.983+00
27	6.813-01	2.985+05	9.932-01	8870.5	9.039+01	1.062-10	4.822+13	2.570+13	.591610	.000004	1.5019	2.813+00
28	1.000+00	3.084+05	1.093+00	9342.4	9.693+01	9.824-11	4.460+13	3.062+13	.762515	.000017	1.5720	3.471+00
29	1.468+00	3.221+05	1.225+00	9896.3	1.052+02	9.419-11	4.276+13	3.417+13	.887829	.000084	1.5682	3.578+00
30	2.154+00	3.433+05	1.426+00	10541.5	1.182+02	9.628-11	4.371+13	3.754+13	.952952	.000477	1.5115	3.230+00
31	3.162+00	3.769+05	1.765+00	11305.2	1.420+02	1.065-10	4.835+13	4.270+13	.980168	.002993	1.4361	2.756+00
32	4.642+00	4.266+05	2.347+00	12201.2	1.856+02	1.282-10	5.820+13	5.199+13	.990326	.017348	1.3716	2.374+00
33	6.813+00	4.936+05	3.322+00	13247.3	2.616+02	1.655-10	7.514+13	6.791+13	.994107	.088147	1.3216	2.111+00
34	1.000+01	5.754+05	4.895+00	14441.6	3.873+02	2.219-10	1.007+14	9.352+13	.995545	.321406	1.2884	1.961+00
35	1.468+01	6.697+05	7.343+00	15783.0	5.858+02	3.015-10	1.369+14	1.320+14	.996110	.672797	1.2652	1.870+00
36	2.154+01	7.756+05	1.111+01	17280.5	8.947+02	4.159-10	1.888+14	1.862+14	.996339	.888750	1.2443	1.787+00
37	3.162+01	8.923+05	1.686+01	18943.5	1.371+03	5.790-10	2.629+14	2.612+14	.996425	.965337	1.2286	1.728+00
38	4.642+01	1.018+06	2.550+01	20792.8	2.090+03	8.035-10	3.648+14	3.634+14	.996454	.988701	1.2203	1.701+00
39	6.813+01	1.153+06	3.824+01	22846.2	3.153+03	1.103-09	5.006+14	4.991+14	.996463	.996029	1.2212	1.712+00
40	1.000+02	1.294+06	5.662+01	25109.2	4.687+03	1.491-09	6.769+14	6.751+14	.996469	.998622	1.2169	1.764+00

TEFF = 8500

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.831-03	4713.0	5.787-01	1.956-12	8.881+11	1.445+09	.001562	.000000	-.1171	7.680-04
2	4.642-05	1.143+04	5.026-03	5819.4	1.586+00	4.224-12	1.917+12	5.529+10	.031627	.000000	.1478	1.457-02
3	6.813-05	1.438+04	6.434-03	5885.4	2.029+00	5.338-12	2.423+12	7.291+10	.033002	.000000	.1588	1.617-02
4	1.000-04	1.747+04	8.296-03	5951.6	2.615+00	6.797-12	3.086+12	9.609+10	.034179	.000000	.1712	1.798-02
5	1.468-04	2.068+04	1.075-02	6017.2	3.388+00	8.707-12	3.953+12	1.265+11	.035155	.000000	.1876	2.006-02
6	2.154-04	2.395+04	1.398-02	6081.7	4.404+00	1.119-11	5.081+12	1.660+11	.035896	.000000	.2092	2.245-02
7	3.162-04	2.726+04	1.820-02	6146.4	5.730+00	1.440-11	6.538+12	2.174+11	.036550	.000000	.2377	2.532-02
8	4.642-04	3.059+04	2.365-02	6213.2	7.444+00	1.849-11	8.395+12	2.848+11	.037318	.000000	.2759	2.894-02
9	6.813-04	3.390+04	3.058-02	6284.7	9.621+00	2.361-11	1.072+13	3.741+11	.038486	.000000	.3265	3.372-02
10	1.000-03	3.711+04	3.911-02	6373.1	1.230+01	2.968-11	1.347+13	5.035+11	.041165	.000000	.3538	4.076-02
11	1.468-03	4.020+04	4.936-02	6469.0	1.552+01	3.678-11	1.670+13	6.809+11	.044881	.000000	.3568	5.018-02
12	2.154-03	4.323+04	6.171-02	6556.2	1.940+01	4.524-11	2.054+13	8.955+11	.048017	.000000	.3622	6.076-02
13	3.162-03	4.623+04	7.674-02	6640.1	2.411+01	5.539-11	2.515+13	1.162+12	.050938	.000000	.3738	7.326-02
14	4.642-03	4.923+04	9.510-02	6720.6	2.988+01	6.766-11	3.072+13	1.491+12	.053560	.000000	.3911	8.791-02
15	6.813-03	5.224+04	1.176-01	6798.7	3.693+01	8.252-11	3.746+13	1.898+12	.055896	.000000	.4150	1.052-01
16	1.000-02	5.527+04	1.452-01	6875.6	4.559+01	1.005-10	4.563+13	2.403+12	.058103	.000000	.4462	1.258-01
17	1.468-02	5.831+04	1.790-01	6953.8	5.616+01	1.222-10	5.548+13	3.037+12	.060415	.000000	.4860	1.512-01
18	2.154-02	6.135+04	2.200-01	7036.5	6.901+01	1.480-10	6.721+13	3.848+12	.063197	.000000	.5355	1.834-01
19	3.162-02	6.438+04	2.693-01	7127.5	8.442+01	1.782-10	8.090+13	4.908+12	.067003	.000000	.5963	2.262-01
20	4.642-02	6.735+04	3.273-01	7231.4	1.025+02	2.123-10	9.637+13	6.328+12	.072566	.000000	.6702	2.855-01
21	6.813-02	7.023+04	3.937-01	7353.2	1.231+02	2.491-10	1.131+14	8.275+12	.080902	.000000	.7596	3.718-01
22	1.000-01	7.298+04	4.672-01	7498.6	1.459+02	2.863-10	1.300+14	1.100+13	.093631	.000000	.8662	5.017-01
23	1.468-01	7.555+04	5.453-01	7675.5	1.700+02	3.205-10	1.455+14	1.493+13	.113463	.000000	.9942	7.093-01
24	2.154-01	7.792+04	6.244-01	7892.1	1.941+02	3.470-10	1.575+14	2.064+13	.144918	.000000	1.1430	1.053+00
25	3.162-01	8.007+04	7.009-01	8158.1	2.170+02	3.607-10	1.637+14	2.893+13	.195871	.000000	1.3116	1.636+00
26	4.642-01	8.206+04	7.725-01	8483.7	2.378+02	3.579-10	1.625+14	4.067+13	.277565	.000001	1.4904	2.605+00
27	6.813-01	8.394+04	8.384-01	8869.5	2.562+02	3.388-10	1.538+14	5.562+13	.401226	.000002	1.6645	4.095+00
28	1.000+00	8.591+04	9.018-01	9335.2	2.728+02	3.082-10	1.399+14	7.218+13	.572998	.000008	1.8063	5.954+00
29	1.468+00	8.829+04	9.713-01	9891.9	2.898+02	2.778-10	1.261+14	8.633+13	.760107	.000036	1.8796	7.321+00
30	2.154+00	9.180+04	1.065+00	10543.5	3.126+02	2.625-10	1.192+14	9.561+13	.891485	.000192	1.8535	7.079+00
31	3.162+00	9.768+04	1.220+00	11310.4	3.514+02	2.663-10	1.209+14	1.043+14	.956333	.001237	1.7757	5.995+00
32	4.642+00	1.076+05	1.498+00	12213.2	4.244+02	2.942-10	1.336+14	1.182+14	.981592	.007929	1.6821	4.813+00
33	6.813+00	1.231+05	1.999+00	13266.4	5.611+02	3.559-10	1.616+14	1.448+14	.990504	.044934	1.5992	3.968+00
34	1.000+01	1.444+05	2.864+00	14467.0	8.031+02	4.628-10	2.101+14	1.920+14	.993680	.193661	1.5371	3.472+00
35	1.468+01	1.704+05	4.266+00	15800.5	1.201+03	6.225-10	2.826+14	2.675+14	.994876	.509222	1.5033	3.237+00
36	2.154+01	2.001+05	6.433+00	17289.7	1.818+03	8.487-10	3.853+14	3.762+14	.995380	.799962	1.4853	3.113+00
37	3.162+01	2.332+05	9.743+00	18949.5	2.766+03	1.170-09	5.312+14	5.258+14	.995600	.932998	1.4665	2.989+00
38	4.642+01	2.696+05	1.477+01	20797.8	4.209+03	1.619-09	7.350+14	7.309+14	.995693	.977631	1.4546	2.916+00
39	6.813+01	3.087+05	2.222+01	22851.4	6.354+03	2.222-09	1.009+15	1.004+15	.995734	.992052	1.4537	2.922+00
40	1.000+02	3.495+05	3.300+01	25112.1	9.458+03	3.010-09	1.366+15	1.362+15	.995756	.996971	1.4492	3.005+00



TEFF = 8500

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.636-03	4765.4	1.636+00	5.466-12	2.481+12	3.003+09	.001132	.000000	-.0420	6.800-04
2	4.642-05	4.261+03	5.330-03	5909.5	5.324+00	1.407-11	6.389+12	1.285+11	.021953	.000000	.2304	1.405-02
3	6.813-05	5.187+03	6.780-03	5971.8	6.771+00	1.771-11	8.038+12	1.664+11	.022627	.000000	.2430	1.593-02
4	1.000-04	6.124+03	8.649-03	6032.1	8.638+00	2.235-11	1.015+13	2.147+11	.023130	.000000	.2594	1.812-02
5	1.468-04	7.075+03	1.105-02	6091.9	1.104+01	2.827-11	1.283+13	2.762+11	.023542	.000000	.2818	2.073-02
6	2.154-04	8.038+03	1.412-02	6152.7	1.410+01	3.575-11	1.623+13	3.552+11	.023950	.000000	.3107	2.394-02
7	3.162-04	9.004+03	1.800-02	6215.2	1.797+01	4.509-11	2.047+13	4.563+11	.024440	.000000	.3483	2.795-02
8	4.642-04	9.962+03	2.284-02	6282.5	2.280+01	5.655-11	2.567+13	5.901+11	.025174	.000000	.3946	3.319-02
9	6.813-04	1.090+04	2.876-02	6361.0	2.870+01	7.021-11	3.187+13	7.753+11	.026665	.000000	.4178	4.036-02
10	1.000-03	1.182+04	3.587-02	6444.7	3.579+01	8.631-11	3.919+13	1.016+12	.028442	.000000	.4198	4.927-02
11	1.468-03	1.271+04	4.444-02	6525.4	4.433+01	1.054-10	4.787+13	1.315+12	.030161	.000000	.4247	5.990-02
12	2.154-03	1.360+04	5.479-02	6603.5	5.466+01	1.283-10	5.825+13	1.685+12	.031776	.000000	.4340	7.256-02
13	3.162-03	1.449+04	6.736-02	6679.7	6.720+01	1.557-10	7.069+13	2.141+12	.033270	.000000	.4481	8.763-02
14	4.642-03	1.538+04	8.265-02	6754.1	8.245+01	1.887-10	8.569+13	2.701+12	.034654	.000000	.4679	1.056-01
15	6.813-03	1.627+04	1.013-01	6827.9	1.010+02	2.285-10	1.038+14	3.395+12	.035981	.000000	.4941	1.270-01
16	1.000-02	1.718+04	1.240-01	6902.3	1.237+02	2.765-10	1.255+14	4.258+12	.037319	.000000	.5269	1.531-01
17	1.468-02	1.808+04	1.517-01	6978.8	1.513+02	3.339-10	1.516+14	5.341+12	.038767	.000000	.5671	1.852-01
18	2.154-02	1.899+04	1.851-01	7059.5	1.845+02	4.022-10	1.826+14	6.719+12	.040518	.000000	.6163	2.257-01
19	3.162-02	1.990+04	2.251-01	7148.1	2.243+02	4.819-10	2.188+14	8.513+12	.042867	.000000	.6759	2.787-01
20	4.642-02	2.080+04	2.722-01	7248.5	2.712+02	5.729-10	2.601+14	1.091+13	.046226	.000000	.7479	3.508-01
21	6.813-02	2.167+04	3.265-01	7366.0	3.252+02	6.728-10	3.055+14	1.420+13	.051242	.000000	.8345	4.539-01
22	1.000-01	2.251+04	3.870-01	7506.6	3.852+02	7.771-10	3.528+14	1.883+13	.058905	.000000	.9385	6.078-01
23	1.468-01	2.329+04	4.520-01	7677.3	4.496+02	8.777-10	3.985+14	2.554+13	.070812	.000000	1.0631	8.498-01
24	2.154-01	2.401+04	5.184-01	7889.3	5.150+02	9.628-10	4.371+14	3.562+13	.090112	.000000	1.2132	1.256+00
25	3.162-01	2.466+04	5.828-01	8146.0	5.781+02	1.020-09	4.633+14	5.060+13	.120967	.000000	1.3796	1.939+00
26	4.642-01	2.524+04	6.424-01	8457.7	6.360+02	1.038-09	4.714+14	7.293+13	.171431	.000000	1.5662	3.138+00
27	6.813-01	2.575+04	6.953-01	8840.2	6.864+02	1.005-09	4.561+14	1.053+14	.256576	.000001	1.7714	5.296+00
28	1.000+00	2.623+04	7.412-01	9305.6	7.288+02	9.241-10	4.195+14	1.479+14	.391794	.000004	1.9623	8.576+00
29	1.468+00	2.673+04	7.850-01	9858.1	7.677+02	8.166-10	3.707+14	1.933+14	.579241	.000017	2.1132	1.258+01
30	2.154+00	2.739+04	8.349-01	10524.0	8.106+02	7.234-10	3.284+14	2.292+14	.775566	.000084	2.1658	1.447+01
31	3.162+00	2.843+04	9.078-01	11307.7	8.734+02	6.780-10	3.078+14	2.510+14	.905921	.000526	2.1150	1.304+01
32	4.642+00	3.030+04	1.035+00	12209.1	9.858+02	6.897-10	3.131+14	2.717+14	.962669	.003455	2.0129	1.035+01
33	6.813+00	3.363+04	1.277+00	13259.1	1.206+03	7.688-10	3.490+14	3.098+14	.983288	.021284	1.8983	7.945+00
34	1.000+01	3.890+04	1.725+00	14448.8	1.623+03	9.420-10	4.277+14	3.859+14	.990376	.106322	1.8082	6.503+00
35	1.468+01	4.602+04	2.493+00	15785.0	2.344+03	1.229-09	5.578+14	5.180+14	.993009	.343253	1.7567	5.799+00
36	2.154+01	5.457+04	3.714+00	17279.0	3.498+03	1.646-09	7.471+14	7.191+14	.994090	.672455	1.7316	5.488+00
37	3.162+01	6.434+04	5.598+00	18941.6	5.283+03	2.243-09	1.018+15	1.001+15	.994570	.877643	1.7108	5.244+00
38	4.642+01	7.522+04	8.472+00	20794.5	8.013+03	3.086-09	1.401+15	1.390+15	.994791	.957819	1.6962	5.081+00
39	6.813+01	8.704+04	1.275+01	22849.3	1.207+04	4.229-09	1.920+15	1.909+15	.994897	.985392	1.6952	5.101+00
40	1.000+02	9.942+04	1.891+01	25130.9	1.793+04	5.715-09	2.595+15	2.583+15	.994960	.994553	1.6928	5.287+00

TEFF = 8500

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	2.274-03	4786.7	7.191+00	2.394-11	1.087+13	7.077+09	.000559	.000000	.0026	6.013-04
2	4.642-05	1.053+03	5.731-03	5960.3	1.811+01	4.785-11	2.172+13	2.692+11	.013433	.000000	.3106	1.465-02
3	6.813-05	1.308+03	7.089-03	6019.5	2.241+01	5.857-11	2.659+13	3.413+11	.013922	.000000	.3284	1.720-02
4	1.000-04	1.570+03	8.791-03	6077.8	2.779+01	7.192-11	3.265+13	4.309+11	.014332	.000000	.3490	2.020-02
5	1.468-04	1.838+03	1.092-02	6136.1	3.451+01	8.847-11	4.016+13	5.430+11	.014697	.000000	.3745	2.382-02
6	2.154-04	2.107+03	1.356-02	6194.5	4.285+01	1.088-10	4.939+13	6.835+11	.015053	.000000	.4056	2.823-02
7	3.162-04	2.376+03	1.681-02	6254.1	5.314+01	1.336-10	6.064+13	8.598+11	.015443	.000000	.4467	3.365-02
8	4.642-04	2.645+03	2.079-02	6321.5	6.569+01	1.632-10	7.411+13	1.097+12	.016110	.000000	.4806	4.077-02
9	6.813-04	2.910+03	2.558-02	6396.6	8.082+01	1.983-10	9.004+13	1.410+12	.017069	.000000	.4904	4.982-02
10	1.000-03	3.174+03	3.133-02	6473.6	9.899+01	2.399-10	1.089+14	1.806+12	.018104	.000000	.4950	6.088-02
11	1.468-03	3.436+03	3.825-02	6549.4	1.208+02	2.892-10	1.313+14	2.298+12	.019127	.000000	.5026	7.426-02
12	2.154-03	3.698+03	4.658-02	6624.3	1.471+02	3.479-10	1.580+14	2.907+12	.020118	.000000	.5136	9.031-02
13	3.162-03	3.962+03	5.666-02	6697.6	1.790+02	4.183-10	1.899+14	3.654+12	.021046	.000000	.5289	1.094-01
14	4.642-03	4.229+03	6.889-02	6769.7	2.176+02	5.028-10	2.282+14	4.571+12	.021920	.000000	.5492	1.323-01
15	6.813-03	4.498+03	8.376-02	6841.3	2.646+02	6.045-10	2.744+14	5.699+12	.022746	.000000	.5752	1.596-01
16	1.000-02	4.771+03	1.019-01	6913.2	3.218+02	7.269-10	3.300+14	7.094+12	.023554	.000000	.6075	1.924-01
17	1.468-02	5.047+03	1.239-01	6987.3	3.913+02	8.739-10	3.967+14	8.839+12	.024425	.000000	.6472	2.328-01
18	2.154-02	5.325+03	1.505-01	7065.6	4.753+02	1.049-09	4.762+14	1.106+13	.025469	.000000	.6954	2.834-01
19	3.162-02	5.603+03	1.824-01	7151.5	5.762+02	1.255-09	5.696+14	1.394+13	.026871	.000000	.7535	3.488-01
20	4.642-02	5.878+03	2.202-01	7249.1	6.953+02	1.491-09	6.770+14	1.778+13	.028863	.000000	.8231	4.369-01
21	6.813-02	6.148+03	2.639-01	7363.2	8.334+02	1.755-09	7.967+14	2.305+13	.031830	.000000	.9067	5.605-01
22	1.000-01	6.409+03	3.132-01	7499.7	9.888+02	2.036-09	9.245+14	3.053+13	.036350	.000000	1.0070	7.418-01
23	1.468-01	6.655+03	3.668-01	7666.5	1.157+03	2.318-09	1.052+15	4.144+13	.043410	.000000	1.1278	1.023+00
24	2.154-01	6.883+03	4.225-01	7872.3	1.333+03	2.573-09	1.168+15	5.792+13	.054728	.000000	1.2724	1.485+00
25	3.162-01	7.087+03	4.772-01	8126.0	1.505+03	2.771-09	1.258+15	8.331+13	.073215	.000000	1.4391	2.271+00
26	4.642-01	7.268+03	5.283-01	8435.6	1.664+03	2.878-09	1.307+15	1.226+14	.103879	.000000	1.6286	3.670+00
27	6.813-01	7.424+03	5.733-01	8816.7	1.804+03	2.859-09	1.298+15	1.838+14	.156824	.000001	1.8425	6.275+00
28	1.000+00	7.560+03	6.113-01	9280.8	1.921+03	2.694-09	1.223+15	2.733+14	.248428	.000002	2.0686	1.103+01
29	1.468+00	7.685+03	6.434-01	9837.8	2.018+03	2.419-09	1.098+15	3.907+14	.396564	.000009	2.2714	1.808+01
30	2.154+00	7.823+03	6.743-01	10507.8	2.109+03	2.076-09	9.426+14	5.115+14	.602313	.000037	2.4126	2.555+01
31	3.162+00	8.020+03	7.120-01	11294.0	2.218+03	1.818-09	8.254+14	5.960+14	.802316	.000215	2.4360	2.731+01
32	4.642+00	8.353+03	7.705-01	12200.2	2.388+03	1.707-09	7.751+14	6.415+14	.919521	.001447	2.3613	2.301+01
33	6.813+00	8.992+03	8.802-01	13253.3	2.713+03	1.744-09	7.918+14	6.913+14	.967696	.009606	2.2318	1.711+01
34	1.000+01	1.017+04	1.097+00	14442.8	3.367+03	1.966-09	8.927+14	7.959+14	.984199	.053105	2.1069	1.292+01
35	1.468+01	1.200+04	1.499+00	15784.7	4.591+03	2.426-09	1.102+15	1.005+15	.989991	.213646	2.0240	1.072+01
36	2.154+01	1.443+04	2.171+00	17275.3	6.650+03	3.157-09	1.433+15	1.355+15	.992218	.522823	1.9847	9.829+00
37	3.162+01	1.732+04	3.230+00	18946.4	9.898+03	4.222-09	1.917+15	1.867+15	.993198	.796089	1.9597	9.302+00
38	4.642+01	2.058+04	4.843+00	20789.3	1.486+04	5.736-09	2.604+15	2.572+15	.993655	.925039	1.9480	9.088+00
39	6.813+01	2.415+04	7.232+00	22849.3	2.220+04	7.781-09	3.533+15	3.506+15	.993897	.973128	1.9480	9.118+00
40	1.000+02	2.791+04	1.068+01	25114.7	3.281+04	1.046-08	4.749+15	4.721+15	.994030	.989574	1.9430	9.406+00

TEFF = 8500

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	2.072-03	4830.5	2.072+01	6.838-11	3.105+13	1.438+10	.000371	.000000	.0823	7.469-04
2	4.642-05	3.234+02	5.080-03	5984.6	5.080+01	1.343-10	6.099+13	4.756+11	.008375	.000000	.3902	1.724-02
3	6.813-05	4.002+02	6.223-03	6042.3	6.222+01	1.629-10	7.396+13	5.980+11	.008694	.000000	.4109	2.066-02
4	1.000-04	4.781+02	7.624-03	6099.1	7.622+01	1.977-10	8.974+13	7.484+11	.008979	.000000	.4343	2.475-02
5	1.468-04	5.569+02	9.341-03	6156.1	9.338+01	2.399-10	1.089+14	9.348+11	.009252	.000000	.4626	2.969-02
6	2.154-04	6.365+02	1.144-02	6214.3	1.143+02	2.910-10	1.321+14	1.167+12	.009536	.000000	.4976	3.576-02
7	3.162-04	7.163+02	1.399-02	6274.3	1.400+02	3.525-10	1.600+14	1.460+12	.009856	.000000	.5413	4.328-02
8	4.642-04	7.557+02	1.707-02	6342.0	1.707+02	4.252-10	1.931+14	1.847+12	.010344	.000000	.5676	5.283-02
9	6.813-04	8.748+02	2.077-02	6414.8	2.077+02	5.111-10	2.320+14	2.350+12	.010966	.000000	.5737	6.466-02
10	1.000-03	9.538+02	2.520-02	6487.8	2.520+02	6.129-10	2.783+14	2.976+12	.011600	.000000	.5794	7.895-02
11	1.468-03	1.033+03	3.054-02	6559.9	3.053+02	7.341-10	3.333+14	3.749+12	.012210	.000000	.5878	9.614-02
12	2.154-03	1.113+03	3.698-02	6631.3	3.697+02	8.790-10	3.990+14	4.702+12	.012802	.000000	.5999	1.168-01
13	3.162-03	1.194+03	4.478-02	6702.1	4.477+02	1.053-09	4.779+14	5.874+12	.013369	.000000	.6160	1.414-01
14	4.642-03	1.276+03	5.425-02	6772.2	5.423+02	1.261-09	5.726+14	7.314+12	.013903	.000000	.6367	1.708-01
15	6.813-03	1.360+03	6.576-02	6842.1	6.573+02	1.513-09	6.867+14	9.083+12	.014411	.000000	.6629	2.060-01
16	1.000-02	1.444+03	7.978-02	6912.7	7.974+02	1.816-09	8.243+14	1.127+13	.014910	.000000	.6951	2.485-01
17	1.468-02	1.530+03	9.682-02	6985.3	9.678+02	2.180-09	9.895+14	1.401+13	.015440	.000000	.7346	3.002-01
18	2.154-02	1.516+03	1.175-01	7063.1	1.174+03	2.614-09	1.187+15	1.750+13	.016098	.000000	.7834	3.655-01
19	3.162-02	1.703+03	1.422-01	7148.4	1.422+03	3.125-09	1.419+15	2.203+13	.016979	.000000	.8414	4.494-01
20	4.642-02	1.789+03	1.716-01	7244.8	1.716+03	3.716-09	1.687+15	2.807+13	.018212	.000000	.9097	5.606-01
21	6.813-02	1.874+03	2.058-01	7356.7	2.057+03	4.382-09	1.989+15	3.635+13	.020018	.000000	.9906	7.136-01
22	1.000-01	1.956+03	2.448-01	7489.9	2.446+03	5.105-09	2.318+15	4.802+13	.022731	.000000	1.0871	9.336-01
23	1.468-01	2.034+03	2.877-01	7651.8	2.875+03	5.851-09	2.656+15	6.512+13	.026927	.000000	1.2021	1.266+00
24	2.154-01	2.107+03	3.331-01	7851.7	3.328+03	6.563-09	2.980+15	9.101+13	.033618	.000000	1.3398	1.798+00
25	3.162-01	2.174+03	3.789-01	8098.9	3.784+03	7.167-09	3.254+15	1.314+14	.044539	.000000	1.5005	2.690+00
26	4.642-01	2.233+03	4.224-01	8405.0	4.218+03	7.575-09	3.439+15	1.960+14	.062986	.000000	1.6875	4.282+00
27	6.813-01	2.283+03	4.610-01	8786.8	4.602+03	7.691-09	3.491+15	3.020+14	.095647	.000000	1.9033	7.307+00
28	1.000+00	2.326+03	4.936-01	9248.9	4.924+03	7.461-09	3.387+15	4.684+14	.153033	.000001	2.1381	1.299+01
29	1.468+00	2.363+03	5.200-01	9809.5	5.183+03	6.853-09	3.111+15	7.127+14	.255569	.000005	2.3811	2.337+01
30	2.154+00	2.398+03	5.426-01	10481.0	5.402+03	5.970-09	2.710+15	1.028+15	.421642	.000022	2.5819	3.774+01
31	3.162+00	2.440+03	5.651-01	11275.6	5.618+03	5.037-09	2.287+15	1.324+15	.642579	.000098	2.6982	4.980+01
32	4.642+00	2.503+03	5.949-01	12190.9	5.901+03	4.411-09	2.003+15	1.502+15	.832960	.000608	2.6900	4.906+01
33	6.813+00	2.619+03	6.444-01	13239.6	6.374+03	4.172-09	1.894+15	1.591+15	.932985	.004117	2.5809	3.825+01
34	1.000+01	2.854+03	7.438-01	14437.6	7.336+03	4.319-09	1.961+15	1.721+15	.971303	.025256	2.4333	2.737+01
35	1.468+01	3.284+03	9.415-01	15776.4	9.267+03	4.938-09	2.242+15	2.013+15	.984423	.118714	2.3152	2.097+01
36	2.154+01	3.929+03	1.297+00	17275.0	1.276+04	6.112-09	2.775+15	2.573+15	.989240	.366812	2.2510	1.814+01
37	3.162+01	4.756+03	1.873+00	18937.8	1.842+04	7.915-09	3.593+15	3.450+15	.991224	.677932	2.2213	1.702+01
38	4.642+01	5.725+03	2.760+00	20792.4	2.714+04	1.051-08	4.773+15	4.680+15	.992161	.872327	2.2060	1.647+01
39	6.813+01	6.807+03	4.082+00	22841.7	4.015+04	1.410-08	6.400+15	6.331+15	.992635	.951800	2.2039	1.645+01
40	1.000+02	7.964+03	6.001+00	25106.6	5.903+04	1.883-08	8.549+15	8.483+15	.992901	.980933	2.1967	1.686+01

TEFF = 8500

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	2.020-03	4884.5	6.388+01	2.085-10	9.464+13	3.203+10	.000247	.000000	.1911	1.182-03
2	4.642-05	7.697+01	3.980-03	5998.6	1.259+02	3.326-10	1.510+14	7.879+11	.005549	.000000	.4983	2.254-02
3	6.813-05	1.008+02	4.849-03	6060.6	1.534+02	4.011-10	1.821+14	9.936+11	.005815	.000000	.5209	2.756-02
4	1.000-04	1.245+02	5.893-03	6118.9	1.863+02	4.826-10	2.191+14	1.240+12	.006039	.000000	.5459	3.341-02
5	1.468-04	1.483+02	7.158-03	6176.2	2.263+02	5.808-10	2.637+14	1.539+12	.006239	.000000	.5739	4.036-02
6	2.154-04	1.724+02	8.698-03	6233.7	2.750+02	6.992-10	3.174+14	1.907+12	.006429	.000000	.6084	4.876-02
7	3.162-04	1.968+02	1.057-02	6293.9	3.341+02	8.412-10	3.819+14	2.372+12	.006654	.000000	.6447	5.908-02
8	4.642-04	2.213+02	1.283-02	6359.7	4.056+02	1.010-09	4.587+14	2.978+12	.006965	.000000	.6618	7.183-02
9	6.813-04	2.459+02	1.555-02	6429.0	4.919+02	1.212-09	5.502+14	3.747+12	.007320	.000000	.6663	8.735-02
10	1.000-03	2.707+02	1.885-02	6498.1	5.960+02	1.453-09	6.595+14	4.705+12	.007680	.000000	.6730	1.062-01
11	1.468-03	2.958+02	2.283-02	6567.2	7.220+02	1.741-09	7.903+14	5.888+12	.008033	.000000	.6827	1.287-01
12	2.154-03	3.211+02	2.766-02	6636.3	8.745+02	2.086-09	9.471+14	7.352+12	.008380	.000000	.6960	1.559-01
13	3.162-03	3.467+02	3.351-02	6705.4	1.060+03	2.501-09	1.135+15	9.162+12	.008722	.000000	.7141	1.886-01
14	4.642-03	3.725+02	4.061-02	6775.1	1.284+03	2.998-09	1.361+15	1.140+13	.009064	.000000	.7381	2.282-01
15	6.813-03	3.988+02	4.923-02	6844.8	1.556+03	3.597-09	1.633+15	1.415+13	.009391	.000000	.7665	2.756-01
16	1.000-02	4.253+02	5.971-02	6915.3	1.888+03	4.317-09	1.960+15	1.757+13	.009717	.000000	.8005	3.325-01
17	1.468-02	4.522+02	7.245-02	6987.5	2.290+03	5.182-09	2.353+15	2.181+13	.010061	.000000	.8409	4.018-01
18	2.154-02	4.794+02	8.790-02	7064.0	2.779+03	6.216-09	2.822+15	2.720+13	.010468	.000000	.8884	4.877-01
19	3.162-02	5.067+02	1.065-01	7147.4	3.367+03	7.441-09	3.378+15	3.418+13	.010996	.000000	.9442	5.966-01
20	4.642-02	5.340+02	1.287-01	7241.1	4.069+03	8.869-09	4.027+15	4.343+13	.011743	.000000	1.0097	7.391-01
21	6.813-02	5.610+02	1.548-01	7349.7	4.893+03	1.050-08	4.766+15	5.607+13	.012826	.000000	1.0869	9.320-01
22	1.000-01	5.873+02	1.848-01	7478.6	5.841+03	1.230-08	5.583+15	7.387+13	.014452	.000000	1.1785	1.204+00
23	1.468-01	6.127+02	2.183-01	7635.2	6.901+03	1.420-08	6.446+15	9.991+13	.016960	.000000	1.2876	1.606+00
24	2.154-01	6.365+02	2.544-01	7830.2	8.042+03	1.608-08	7.298+15	1.398+14	.021011	.000000	1.4196	2.240+00
25	3.162-01	6.584+02	2.914-01	8072.6	9.212+03	1.776-08	8.061+15	2.026+14	.027649	.000000	1.5746	3.287+00
26	4.642-01	6.779+02	3.274-01	8372.8	1.035+04	1.904-08	8.645+15	3.046+14	.038827	.000000	1.7547	5.119+00
27	6.813-01	6.948+02	3.601-01	8748.6	1.138+04	1.970-08	8.943+15	4.753+14	.058679	.000000	1.9660	8.551+00
28	1.000+00	7.089+02	3.881-01	9208.3	1.226+04	1.956-08	8.880+15	7.585+14	.094384	.000001	2.2017	1.514+01
29	1.468+00	7.208+02	4.108-01	9767.5	1.298+04	1.849-08	8.394+15	1.212+15	.160166	.000002	2.4570	2.794+01
30	2.154+00	7.311+02	4.290-01	10436.9	1.354+04	1.659-08	7.531+15	1.876+15	.278863	.000011	2.6931	4.880+01
31	3.162+00	7.416+02	4.449-01	11230.6	1.404+04	1.407-08	6.388+15	2.663+15	.462439	.000049	2.8821	7.607+01
32	4.642+00	7.556+02	4.625-01	12159.8	1.458+04	1.182-08	5.367+15	3.307+15	.688336	.000250	2.9577	9.088+01
33	6.813+00	7.778+02	4.873-01	13222.3	1.534+04	1.043-08	4.733+15	3.656+15	.859020	.001723	2.9166	8.291+01
34	1.000+01	8.219+02	5.318-01	14424.7	1.672+04	9.990-09	4.535+15	3.859+15	.943134	.011373	2.7771	6.042+01
35	1.468+01	9.114+02	6.234-01	15770.1	1.957+04	1.051-08	4.774+15	4.213+15	.973420	.060640	2.6354	4.386+01
36	2.154+01	1.068+03	8.002-01	17272.8	2.509+04	1.214-08	5.511+15	5.009+15	.984071	.229589	2.5379	3.520+01
37	3.162+01	1.293+03	1.104+00	18933.8	3.461+04	1.501-08	6.816+15	6.426+15	.988182	.529672	2.4906	3.166+01
38	4.642+01	1.575+03	1.585+00	20797.9	4.966+04	1.934-08	8.778+15	8.518+15	.990054	.790069	2.4686	3.018+01
39	6.813+01	1.900+03	2.309+00	22841.1	7.235+04	2.548-08	1.157+16	1.138+16	.990963	.916354	2.4627	2.994+01
40	1.000+02	2.256+03	3.367+00	25117.2	1.054+05	3.371-08	1.530+16	1.515+16	.991478	.968010	2.4539	3.047+01

TEFF = 9000

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	3.118-04	5233.9	3.075-02	9.015-14	4.093+10	1.626+09	.043705	.000000	.5183	1.367-02
2	4.642-05	4.005+04	7.848-04	6049.1	7.579-02	1.635-13	7.425+10	1.648+10	.246043	.000000	.7047	8.308-02
3	6.813-05	5.077+04	1.040-03	6116.9	1.000-01	2.128-13	9.663+10	2.180+10	.250212	.000000	.7144	8.679-02
4	1.000-04	6.049+04	1.399-03	6188.5	1.340-01	2.812-13	1.277+11	2.921+10	.253677	.000000	.7264	9.085-02
5	1.468-04	8.084+04	1.900-03	6263.9	1.813-01	3.749-13	1.702+11	3.954+10	.257640	.000000	.7447	9.583-02
6	2.154-04	1.008+05	2.594-03	6345.4	2.469-01	5.019-13	2.279+11	5.406+10	.262850	.000000	.7400	1.016-01
7	3.162-04	1.072+05	3.554-03	6429.2	3.379-01	6.755-13	3.067+11	7.414+10	.268088	.000000	.7095	1.079-01
8	4.642-04	1.042+05	4.884-03	6511.5	4.643-01	9.148-13	4.153+11	1.014+11	.270827	.000000	.6836	1.143-01
9	6.813-04	1.514+05	6.726-03	6592.8	6.399-01	1.244-12	5.649+11	1.385+11	.271825	.000000	.6672	1.213-01
10	1.000-03	1.089+05	9.265-03	6674.4	8.821-01	1.695-12	7.693+11	1.886+11	.271881	.000000	.6594	1.296-01
11	1.468-03	1.065+05	1.274-02	6756.3	1.213+00	2.304-12	1.046+12	2.561+11	.271613	.000000	.6556	1.395-01
12	2.154-03	2.040+05	1.745-02	6837.8	1.664+00	3.123-12	1.418+12	3.461+11	.270730	.000000	.6563	1.514-01
13	3.162-03	2.215+05	2.381-02	6917.9	2.271+00	4.218-12	1.915+12	4.644+11	.268986	.000000	.6636	1.654-01
14	4.642-03	2.388+05	3.232-02	6997.0	3.082+00	5.668-12	2.573+12	6.190+11	.266778	.000000	.6782	1.821-01
15	6.813-03	2.560+05	4.361-02	7075.9	4.156+00	7.570-12	3.437+12	8.197+11	.264543	.000000	.6999	2.024-01
16	1.000-02	2.030+05	5.843-02	7156.0	5.562+00	1.003-11	4.553+12	1.080+12	.262967	.000000	.7294	2.275-01
17	1.468-02	2.096+05	7.763-02	7239.6	7.375+00	1.314-11	5.966+12	1.416+12	.263226	.000000	.7677	2.597-01
18	2.154-02	3.060+05	1.021-01	7330.1	9.670+00	1.697-11	7.705+12	1.854+12	.266895	.000000	.8155	3.022-01
19	3.162-02	3.219+05	1.326-01	7431.0	1.251+01	2.152-11	9.770+12	2.426+12	.275543	.000000	.8716	3.595-01
20	4.642-02	3.073+05	1.697-01	7545.7	1.592+01	2.669-11	1.212+13	3.177+12	.290901	.000000	.9387	4.384-01
21	6.813-02	3.023+05	2.138-01	7680.3	1.991+01	3.220-11	1.462+13	4.169+12	.316321	.000000	1.0193	5.513-01
22	1.000-01	3.067+05	2.642-01	7843.5	2.436+01	3.750-11	1.703+13	5.484+12	.357064	.000000	1.1138	7.170-01
23	1.468-01	3.809+05	3.205-01	8037.5	2.918+01	4.213-11	1.913+13	7.184+12	.416476	.000000	1.2119	9.499-01
24	2.154-01	3.950+05	3.828-01	8268.8	3.427+01	4.567-11	2.074+13	9.313+12	.497991	.000001	1.3085	1.258+00
25	3.162-01	4.098+05	4.522-01	8550.0	3.964+01	4.790-11	2.175+13	1.186+13	.604821	.000002	1.4028	1.649+00
26	4.642-01	4.262+05	5.316-01	8896.9	4.538+01	4.917-11	2.232+13	1.465+13	.728598	.000007	1.4764	2.057+00
27	6.813-01	4.458+05	6.293-01	9321.8	5.207+01	5.073-11	2.303+13	1.747+13	.843276	.000026	1.5120	2.346+00
28	1.000+00	4.711+05	7.618-01	9826.5	6.100+01	5.413-11	2.458+13	2.039+13	.921672	.000113	1.5110	2.433+00
29	1.468+00	5.052+05	9.579-01	10419.5	7.447+01	6.107-11	2.773+13	2.404+13	.963157	.000533	1.4762	2.333+00
30	2.154+00	5.508+05	1.262+00	11106.5	9.623+01	7.336-11	3.331+13	2.945+13	.982008	.002687	1.4369	2.179+00
31	3.162+00	6.091+05	1.745+00	11932.1	1.319+02	9.318-11	4.230+13	3.779+13	.990484	.013638	1.3992	2.007+00
32	4.642+00	6.804+05	2.513+00	12893.0	1.902+02	1.238-10	5.619+13	5.066+13	.994056	.064885	1.3671	1.863+00
33	6.813+00	7.635+05	3.716+00	14011.5	2.834+02	1.680-10	7.625+13	7.024+13	.995575	.247534	1.3418	1.759+00
34	1.000+01	8.574+05	5.564+00	15274.8	4.285+02	2.288-10	1.039+14	9.928+13	.996199	.587509	1.3236	1.696+00
35	1.468+01	9.621+05	8.382+00	16698.7	6.524+02	3.144-10	1.427+14	1.402+14	.996460	.849993	1.3039	1.628+00
36	2.154+01	1.078+06	1.269+01	18281.1	9.987+02	4.374-10	1.986+14	1.972+14	.996558	.952955	1.2853	1.565+00
37	3.162+01	1.204+06	1.921+01	20047.9	1.526+03	6.084-10	2.762+14	2.752+14	.996591	.985055	1.2760	1.536+00
38	4.642+01	1.338+06	2.886+01	22004.4	2.309+03	8.385-10	3.807+14	3.796+14	.996598	.994856	1.2733	1.535+00
39	6.813+01	1.481+06	4.288+01	24186.4	3.447+03	1.138-09	5.168+14	5.154+14	.996603	.998175	1.2804	1.566+00
40	1.000+02	1.630+06	6.284+01	26579.0	5.063+03	1.521-09	6.907+14	6.891+14	.996610	.999932	1.2753	1.632+00

TEFF = 9000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	4.664-04	5225.3	1.471-01	4.405-13	2.000+11	3.636+09	.019785	.000000	.5121	6.753-03
2	4.642-05	1.202+04	1.162-03	6156.5	3.636-01	8.278-13	3.758+11	5.117+10	.150704	.000000	.7381	5.956-02
3	6.813-05	1.579+04	1.515-03	6225.2	4.730-01	1.063-12	4.826+11	6.694+10	.153652	.000000	.7497	6.352-02
4	1.000-04	1.979+04	1.999-03	6296.8	6.234-01	1.383-12	6.278+11	8.844+10	.156067	.000000	.7665	6.801-02
5	1.468-04	2.396+04	2.662-03	6373.2	8.291-01	1.814-12	8.234+11	1.181+11	.158846	.000000	.7488	7.298-02
6	2.154-04	2.829+04	3.567-03	6450.2	1.111+00	2.397-12	1.088+12	1.580+11	.160867	.000000	.7219	7.843-02
7	3.162-04	3.274+04	4.802-03	6526.2	1.495+00	3.187-12	1.447+12	2.113+11	.161824	.000000	.7027	8.460-02
8	4.642-04	3.728+04	6.476-03	6602.3	2.016+00	4.248-12	1.929+12	2.823+11	.162142	.000000	.6894	9.186-02
9	6.813-04	4.187+04	8.731-03	6678.2	2.718+00	5.664-12	2.571+12	3.760+11	.162010	.000000	.6824	1.005-01
10	1.000-03	4.648+04	1.174-02	6754.0	3.656+00	7.535-12	3.421+12	4.990+11	.161607	.000000	.6818	1.110-01
11	1.468-03	5.106+04	1.572-02	6829.7	4.896+00	9.985-12	4.533+12	6.590+11	.161057	.000000	.6876	1.237-01
12	2.154-03	5.561+04	2.094-02	6905.3	6.521+00	1.316-11	5.975+12	8.656+11	.160516	.000000	.6996	1.391-01
13	3.162-03	6.011+04	2.773-02	6980.6	8.631+00	1.724-11	7.826+12	1.130+12	.159943	.000000	.7180	1.580-01
14	4.642-03	6.454+04	3.645-02	7057.0	1.134+01	2.242-11	1.018+13	1.468+12	.159823	.000000	.7413	1.809-01
15	6.813-03	6.890+04	4.758-02	7134.6	1.480+01	2.892-11	1.313+13	1.898+12	.160183	.000000	.7685	2.091-01
16	1.000-02	7.320+04	6.168-02	7212.9	1.917+01	3.704-11	1.681+13	2.440+12	.160839	.000000	.8019	2.432-01
17	1.468-02	7.742+04	7.936-02	7293.9	2.464+01	4.702-11	2.135+13	3.129+12	.162397	.000000	.8428	2.859-01
18	2.154-02	8.157+04	1.013-01	7380.5	3.141+01	5.909-11	2.683+13	4.009+12	.165627	.000000	.8926	3.408-01
19	3.162-02	8.563+04	1.280-01	7476.6	3.965+01	7.328-11	3.327+13	5.153+12	.171675	.000000	.9527	4.142-01
20	4.642-02	8.956+04	1.599-01	7587.3	4.943+01	8.928-11	4.053+13	6.664+12	.182225	.000000	1.0254	5.164-01
21	6.813-02	9.335+04	1.969-01	7718.6	6.069+01	1.063-10	4.826+13	8.695+12	.199746	.000000	1.1125	6.651-01
22	1.000-01	9.695+04	2.382-01	7878.0	7.314+01	1.229-10	5.580+13	1.147+13	.227850	.000000	1.2159	8.894-01
23	1.468-01	1.004+05	2.830-01	8067.8	8.647+01	1.376-10	6.246+13	1.519+13	.269820	.000000	1.3259	1.217+00
24	2.154-01	1.037+05	3.304-01	8298.4	1.003+02	1.484-10	6.738+13	2.020+13	.332681	.000000	1.4472	1.707+00
25	3.162-01	1.069+05	3.796-01	8577.9	1.143+02	1.538-10	6.984+13	2.668+13	.423953	.000001	1.5743	2.422+00
26	4.642-01	1.103+05	4.306-01	8921.2	1.282+02	1.533-10	6.959+13	3.451+13	.550316	.000003	1.6944	3.375+00
27	6.813-01	1.140+05	4.867-01	9342.2	1.429+02	1.497-10	6.797+13	4.282+13	.699721	.000012	1.7818	4.341+00
28	1.000+00	1.185+05	5.549-01	9843.1	1.600+02	1.482-10	6.730+13	5.050+13	.833487	.000051	1.8163	4.901+00
29	1.468+00	1.249+05	6.510-01	10430.8	1.843+02	1.542-10	7.001+13	5.798+13	.919808	.000235	1.7898	4.799+00
30	2.154+00	1.342+05	8.010-01	11120.7	2.230+02	1.714-10	7.780+13	6.749+13	.963250	.001217	1.7380	4.351+00
31	3.162+00	1.474+05	1.048+00	11941.1	2.885+02	2.045-10	9.285+13	8.219+13	.982448	.006444	1.6822	3.846+00
32	4.642+00	1.651+05	1.458+00	12902.5	3.996+02	2.608-10	1.184+14	1.059+14	.990348	.032436	1.6320	3.418+00
33	6.813+00	1.873+05	2.129+00	14023.5	5.845+02	3.484-10	1.582+14	1.438+14	.993601	.140791	1.5887	3.095+00
34	1.000+01	2.134+05	3.195+00	15291.4	8.819+02	4.749-10	2.156+14	2.022+14	.994923	.417539	1.5587	2.908+00
35	1.468+01	2.428+05	4.836+00	16711.1	1.343+03	6.507-10	2.954+14	2.867+14	.995485	.737900	1.5402	2.803+00
36	2.154+01	2.753+05	7.332+00	18287.0	2.048+03	8.988-10	4.080+14	4.030+14	.995728	.908929	1.5234	2.706+00
37	3.162+01	3.110+05	1.112+01	20054.1	3.121+03	1.245-09	5.654+14	5.619+14	.995834	.970135	1.5093	2.627+00
38	4.642+01	3.495+05	1.677+01	22006.3	4.728+03	1.717-09	7.797+14	7.765+14	.995875	.989551	1.5048	2.614+00
39	6.813+01	3.905+05	2.502+01	24189.2	7.071+03	2.336-09	1.060+15	1.057+15	.995899	.996146	1.5105	2.658+00
40	1.000+02	4.332+05	3.678+01	26580.1	1.041+04	3.129-09	1.421+15	1.416+15	.995916	.998723	1.5058	2.774+00

TEFF = 9000

LOG G = 3.0

	TAU(RGSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	3.573-04	5292.4	3.567-01	1.059-12	4.807+11	6.900+09	.015561	.000000	.5906	5.698-03
2	4.642-05	5.355+03	1.317-03	6261.7	1.311+00	3.055-12	1.387+12	1.269+11	.101192	.000000	.8073	4.972-02
3	6.813-05	6.556+03	1.735-03	6331.0	1.726+00	3.974-12	1.804+12	1.672+11	.102472	.000000	.8119	5.402-02
4	1.000-04	7.805+03	2.300-03	6403.8	2.287+00	5.202-12	2.362+12	2.214+11	.103669	.000000	.7857	5.885-02
5	1.468-04	9.073+03	3.058-03	6474.8	3.041+00	6.840-12	3.105+12	2.923+11	.104128	.000000	.7656	6.434-02
6	2.154-04	1.036+04	4.073-03	6545.0	4.050+00	9.014-12	4.092+12	3.850+11	.104052	.000000	.7516	7.076-02
7	3.162-04	1.166+04	5.422-03	6615.1	5.391+00	1.188-11	5.392+12	5.053+11	.103694	.000000	.7435	7.844-02
8	4.642-04	1.296+04	7.199-03	6685.4	7.159+00	1.561-11	7.089+12	6.610+11	.103177	.000000	.7419	8.777-02
9	6.813-04	1.426+04	9.518-03	6756.9	9.464+00	2.043-11	9.277+12	8.623+11	.102850	.000000	.7454	9.931-02
10	1.000-03	1.554+04	1.251-02	6830.2	1.243+01	2.657-11	1.206+13	1.122+12	.102908	.000000	.7516	1.137-01
11	1.468-03	1.681+04	1.633-02	6903.6	1.624+01	3.431-11	1.558+13	1.450+12	.103059	.000000	.7608	1.312-01
12	2.154-03	1.805+04	2.118-02	6975.5	2.105+01	4.404-11	2.000+13	1.861+12	.103028	.000000	.7749	1.519-01
13	3.162-03	1.928+04	2.731-02	7046.5	2.715+01	5.624-11	2.553+13	2.374+12	.102917	.000000	.7940	1.765-01
14	4.642-03	2.050+04	3.504-02	7117.5	3.483+01	7.143-11	3.243+13	3.014+12	.102838	.000000	.8184	2.060-01
15	6.813-03	2.171+04	4.474-02	7189.3	4.447+01	9.026-11	4.098+13	3.811+12	.102926	.000000	.8480	2.417-01
16	1.000-02	2.290+04	5.683-02	7262.7	5.647+01	1.134-10	5.149+13	4.808+12	.103329	.000000	.8835	2.853-01
17	1.468-02	2.407+04	7.179-02	7339.4	7.131+01	1.416-10	6.430+13	6.062+12	.104338	.000000	.9263	3.395-01
18	2.154-02	2.524+04	9.014-02	7422.1	8.946+01	1.755-10	7.965+13	7.660+12	.106445	.000000	.9778	4.090-01
19	3.162-02	2.637+04	1.123-01	7514.9	1.114+02	2.151-10	9.763+13	9.737+12	.110405	.000000	1.0388	5.013-01
20	4.642-02	2.748+04	1.385-01	7621.9	1.374+02	2.599-10	1.180+14	1.249+13	.117196	.000000	1.1110	6.284-01
21	6.813-02	2.855+04	1.688-01	7748.7	1.672+02	3.084-10	1.400+14	1.623+13	.128284	.000000	1.1978	8.125-01
22	1.000-01	2.956+04	2.026-01	7901.2	2.004+02	3.574-10	1.623+14	2.136+13	.145770	.000000	1.2993	1.086+00
23	1.468-01	3.052+04	2.391-01	8085.0	2.361+02	4.028-10	1.829+14	2.851+13	.172619	.000000	1.4141	1.500+00
24	2.154-01	3.143+04	2.772-01	8308.9	2.730+02	4.390-10	1.993+14	3.854+13	.214188	.000000	1.5446	2.148+00
25	3.162-01	3.228+04	3.155-01	8586.7	3.097+02	4.590-10	2.084+14	5.261+13	.279997	.000001	1.6933	3.202+00
26	4.642-01	3.309+04	3.528-01	8927.9	3.447+02	4.581-10	2.080+14	7.137+13	.380227	.000002	1.8487	4.819+00
27	6.813-01	3.391+04	3.896-01	9339.1	3.785+02	4.406-10	2.000+14	9.358+13	.520117	.000006	1.9863	6.961+00
28	1.000+00	3.484+04	4.293-01	9832.6	4.138+02	4.152-10	1.885+14	1.163+14	.685333	.000023	2.0780	8.992+00
29	1.468+00	3.605+04	4.789-01	10416.5	4.573+02	4.005-10	1.818+14	1.359+14	.830093	.000096	2.0963	9.728+00
30	2.154+00	3.786+04	5.518-01	11111.7	5.214+02	4.090-10	1.857+14	1.542+14	.921838	.000516	2.0554	9.042+00
31	3.162+00	4.067+04	6.722-01	11930.2	6.293+02	4.501-10	2.043+14	1.778+14	.965350	.002908	1.9852	7.729+00
32	4.642+00	4.495+04	8.822-01	12896.9	8.207+02	5.381-10	2.443+14	2.167+14	.983256	.016094	1.9125	6.506+00
33	6.813+00	5.087+04	1.245+00	14019.9	1.156+03	6.924-10	3.143+14	2.828+14	.990245	.078906	1.8479	5.610+00
34	1.000+01	5.831+04	1.844+00	15294.7	1.715+03	9.309-10	4.226+14	3.895+14	.993020	.271851	1.8049	5.113+00
35	1.468+01	6.690+04	2.781+00	16710.5	2.594+03	1.267-09	5.753+14	5.492+14	.994171	.592999	1.7825	4.894+00
36	2.154+01	7.651+04	4.212+00	18291.5	3.940+03	1.736-09	7.880+14	7.719+14	.994694	.837778	1.7654	4.724+00
37	3.162+01	8.713+04	6.387+00	20052.4	5.992+03	2.394-09	1.087+15	1.076+15	.994934	.943499	1.7493	4.565+00
38	4.642+01	9.870+04	9.649+00	22013.1	9.072+03	3.297-09	1.497+15	1.488+15	.995047	.980025	1.7437	4.526+00
39	6.813+01	1.110+05	1.440+01	24190.0	1.356+04	4.482-09	2.035+15	2.025+15	.995109	.992805	1.7509	4.636+00
40	1.000+02	1.239+05	2.113+01	26608.7	1.990+04	5.992-09	2.720+15	2.709+15	.995155	.997248	1.7482	4.867+00

TEFF = 9000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	6.049-04	5282.1	1.913+00	5.737-12	2.605+12	1.578+10	.006414	.000000	.5962	3.061-03
2	4.642-05	1.321+03	1.711-03	6353.2	5.404+00	1.284-11	5.831+12	3.214+11	.060817	.000000	.8543	4.382-02
3	6.813-05	1.642+03	2.178-03	6418.3	6.876+00	1.617-11	7.339+12	4.114+11	.061845	.000000	.8404	4.899-02
4	1.000-04	1.977+03	2.790-03	6483.2	8.804+00	2.049-11	9.300+12	5.265+11	.062474	.000000	.8249	5.498-02
5	1.468-04	2.323+03	3.587-03	6548.7	1.132+01	2.607-11	1.184+13	6.743+11	.062877	.000000	.8158	6.215-02
6	2.154-04	2.675+03	4.620-03	6615.5	1.458+01	3.324-11	1.509+13	8.642+11	.063220	.000000	.8095	7.089-02
7	3.162-04	3.027+03	5.943-03	6682.3	1.875+01	4.232-11	1.921+13	1.105+12	.063499	.000000	.8068	8.144-02
8	4.642-04	3.378+03	7.626-03	6749.3	2.407+01	5.376-11	2.440+13	1.409+12	.063737	.000000	.8076	9.416-02
9	6.813-04	3.729+03	9.755-03	6816.5	3.079+01	6.808-11	3.091+13	1.790+12	.063941	.000000	.8124	1.095-01
10	1.000-03	4.079+03	1.244-02	6883.6	3.925+01	8.595-11	3.902+13	2.266+12	.064108	.000000	.8211	1.279-01
11	1.468-03	4.427+03	1.580-02	6950.8	4.987+01	1.081-10	4.909+13	2.857+12	.064251	.000000	.8340	1.498-01
12	2.154-03	4.774+03	2.001-02	7018.2	6.314+01	1.356-10	6.155+13	3.590+12	.064411	.000000	.8513	1.763-01
13	3.162-03	5.119+03	2.525-02	7086.1	7.966+01	1.694-10	7.691+13	4.499+12	.064602	.000000	.8727	2.080-01
14	4.642-03	5.463+03	3.175-02	7155.0	1.002+02	2.110-10	9.577+13	5.625+12	.064859	.000000	.8983	2.463-01
15	6.813-03	5.805+03	3.981-02	7224.9	1.256+02	2.618-10	1.189+14	7.020+12	.065222	.000000	.9280	2.922-01
16	1.000-02	6.146+03	4.976-02	7295.8	1.570+02	3.240-10	1.471+14	8.741+12	.065653	.000000	.9630	3.472-01
17	1.468-02	6.487+03	6.203-02	7369.4	1.957+02	3.996-10	1.814+14	1.089+13	.066345	.000000	1.0047	4.148-01
18	2.154-02	6.825+03	7.704-02	7448.8	2.430+02	4.904-10	2.226+14	1.363+13	.067617	.000000	1.0543	5.000-01
19	3.162-02	7.160+03	9.520-02	7537.3	3.001+02	5.975-10	2.713+14	1.716+13	.069898	.000000	1.1133	6.116-01
20	4.642-02	7.488+03	1.168-01	7639.5	3.681+02	7.204-10	3.271+14	2.185+13	.073816	.000000	1.1836	7.637-01
21	6.813-02	7.806+03	1.418-01	7761.0	4.467+02	8.559-10	3.886+14	2.823+13	.080319	.000000	1.2679	9.810-01
22	1.000-01	8.110+03	1.699-01	7908.1	5.350+02	9.973-10	4.528+14	3.712+13	.090693	.000000	1.3680	1.304+00
23	1.468-01	8.396+03	2.004-01	8086.0	6.306+02	1.135-09	5.151+14	4.970+13	.106765	.000000	1.4814	1.792+00
24	2.154-01	8.663+03	2.322-01	8305.3	7.303+02	1.253-09	5.687+14	6.801+13	.132420	.000000	1.6160	2.581+00
25	3.162-01	8.907+03	2.639-01	8578.4	8.289+02	1.332-09	6.047+14	9.488+13	.173864	.000000	1.7747	3.909+00
26	4.642-01	9.130+03	2.939-01	8918.9	9.216+02	1.353-09	6.142+14	1.340+14	.241935	.000001	1.9528	6.176+00
27	6.813-01	9.337+03	3.216-01	9332.2	1.005+03	1.308-09	5.936+14	1.867+14	.348895	.000003	2.1317	9.766+00
28	1.000+00	9.546+03	3.479-01	9814.8	1.085+03	1.216-09	5.523+14	2.481+14	.498813	.000011	2.2823	1.442+01
29	1.468+00	9.789+03	3.762-01	10397.8	1.168+03	1.112-09	5.046+14	3.091+14	.680289	.000048	2.3694	1.825+01
30	2.154+00	1.013+04	4.129-01	11095.0	1.275+03	1.045-09	4.746+14	3.579+14	.837614	.000220	2.3736	1.879+01
31	3.162+00	1.068+04	4.703-01	11922.6	1.445+03	1.052-09	4.776+14	3.998+14	.929480	.001290	2.3108	1.632+01
32	4.642+00	1.160+04	5.715-01	12892.4	1.746+03	1.153-09	5.236+14	4.573+14	.969122	.007587	2.2177	1.315+01
33	6.813+00	1.307+04	7.564-01	14014.2	2.303+03	1.387-09	6.299+14	5.606+14	.984215	.040042	2.1276	1.068+01
34	1.000+01	1.511+04	1.080+00	15292.0	3.287+03	1.797-09	8.159+14	7.408+14	.989966	.164734	2.0630	9.252+00
35	1.468+01	1.763+04	1.606+00	16709.8	4.891+03	2.410-09	1.094+15	1.026+15	.992269	.439999	2.0299	8.645+00
36	2.154+01	2.051+04	2.417+00	18294.9	7.372+03	3.266-09	1.483+15	1.436+15	.993307	.737885	2.0110	8.315+00
37	3.162+01	2.373+04	3.652+00	20052.4	1.115+04	4.470-09	2.029+15	1.999+15	.993798	.900869	1.9957	8.056+00
38	4.642+01	2.723+04	5.491+00	22015.6	1.679+04	6.109-09	2.773+15	2.750+15	.994050	.964038	1.9937	8.054+00
39	6.813+01	3.098+04	8.159+00	24185.2	2.496+04	8.258-09	3.749+15	3.727+15	.994190	.986582	2.0015	8.244+00
40	1.000+02	3.489+04	1.195+01	26596.2	3.655+04	1.100-08	4.994+15	4.969+15	.994286	.994539	1.9968	8.624+00



TEFF = 9000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.550-04	5281.7	8.550+00	2.576-11	1.169+13	3.341+10	.002929	.000000	.6149	2.345-03
2	4.642-05	3.225+02	1.943-03	6394.4	1.942+01	4.700-11	2.134+13	6.670+11	.034327	.000000	.9037	4.233-02
3	6.813-05	4.140+02	2.418-03	6460.4	2.417+01	5.784-11	2.626+13	8.439+11	.035323	.000000	.8894	4.919-02
4	1.000-04	5.074+02	3.017-03	6524.3	3.016+01	7.142-11	3.242+13	1.063+12	.036070	.000000	.8803	5.720-02
5	1.468-04	6.018+02	3.771-03	6587.2	3.769+01	8.835-11	4.011+13	1.337+12	.036668	.000000	.8749	6.669-02
6	2.154-04	6.978+02	4.717-03	6650.3	4.714+01	1.094-10	4.968+13	1.679+12	.037177	.000000	.8727	7.805-02
7	3.162-04	7.950+02	5.903-03	6713.9	5.899+01	1.356-10	6.155+13	2.106+12	.037633	.000000	.8740	9.171-02
8	4.642-04	8.930+02	7.382-03	6778.0	7.377+01	1.679-10	7.622+13	2.636+12	.038059	.000000	.8791	1.082-01
9	6.813-04	9.915+02	9.220-03	6842.9	9.213+01	2.076-10	9.426+13	3.296+12	.038485	.000000	.8878	1.281-01
10	1.000-03	1.090+03	1.150-02	6909.5	1.148+02	2.563-10	1.163+14	4.121+12	.038992	.000000	.8993	1.522-01
11	1.468-03	1.189+03	1.430-02	6977.1	1.429+02	3.155-10	1.432+14	5.142+12	.039531	.000000	.9132	1.814-01
12	2.154-03	1.287+03	1.775-02	7044.5	1.774+02	3.878-10	1.761+14	6.399+12	.040024	.000000	.9301	2.161-01
13	3.162-03	1.386+03	2.201-02	7111.5	2.200+02	4.760-10	2.161+14	7.935+12	.040439	.000000	.9504	2.572-01
14	4.642-03	1.485+03	2.726-02	7178.4	2.724+02	5.839-10	2.651+14	9.816+12	.040770	.000000	.9749	3.057-01
15	6.813-03	1.586+03	3.375-02	7245.1	3.372+02	7.160-10	3.251+14	1.211+13	.041035	.000000	1.0040	3.632-01
16	1.000-02	1.687+03	4.176-02	7313.0	4.172+02	8.776-10	3.984+14	1.494+13	.041307	.000000	1.0385	4.319-01
17	1.468-02	1.788+03	5.163-02	7383.8	5.158+02	1.074-09	4.877+14	1.846+13	.041713	.000000	1.0795	5.156-01
18	2.154-02	1.890+03	6.372-02	7460.2	6.366+02	1.311-09	5.953+14	2.292+13	.042437	.000000	1.1282	6.204-01
19	3.162-02	1.991+03	7.837-02	7545.6	7.829+02	1.593-09	7.230+14	2.869+13	.043749	.000000	1.1859	7.561-01
20	4.642-02	2.091+03	9.586-02	7644.5	9.574+02	1.919-09	8.710+14	3.636+13	.046041	.000000	1.2545	9.392-01
21	6.813-02	2.188+03	1.163-01	7762.4	1.161+03	2.284-09	1.037+15	4.684+13	.049846	.000000	1.3364	1.197+00
22	1.000-01	2.281+03	1.394-01	7905.3	1.391+03	2.674-09	1.214+15	6.152+13	.055943	.000000	1.4335	1.575+00
23	1.468-01	2.370+03	1.648-01	8077.6	1.645+03	3.068-09	1.393+15	8.245+13	.065388	.000000	1.5455	2.143+00
24	2.154-01	2.452+03	1.916-01	8289.5	1.912+03	3.431-09	1.558+15	1.131+14	.080241	.000000	1.6754	3.040+00
25	3.162-01	2.527+03	2.185-01	8556.6	2.180+03	3.713-09	1.686+15	1.599+14	.104850	.000000	1.8340	4.572+00
26	4.642-01	2.595+03	2.440-01	8894.3	2.432+03	3.852-09	1.749+15	2.321+14	.146986	.000001	2.0218	7.323+00
27	6.813-01	2.654+03	2.670-01	9310.9	2.659+03	3.809-09	1.729+15	3.395+14	.217876	.000002	2.2225	1.211+01
28	1.000+00	2.710+03	2.875-01	9804.0	2.860+03	3.595-09	1.632+15	4.841+14	.329118	.000006	2.4162	1.961+01
29	1.468+00	2.766+03	3.068-01	10390.5	3.047+03	3.242-09	1.472+15	6.549+14	.494085	.000023	2.5711	2.896+01
30	2.154+00	2.835+03	3.277-01	11095.5	3.248+03	2.880-09	1.307+15	8.149+14	.692642	.000092	2.6530	3.564+01
31	3.162+00	2.938+03	3.560-01	11921.0	3.518+03	2.666-09	1.210+15	9.276+14	.851685	.000543	2.6379	3.460+01
32	4.642+00	3.115+03	4.030-01	12889.7	3.969+03	2.664-09	1.209+15	1.022+15	.937250	.003404	2.5531	2.841+01
33	6.813+00	3.433+03	4.914-01	14006.8	4.826+03	2.929-09	1.330+15	1.166+15	.971795	.019449	2.4362	2.172+01
34	1.000+01	3.945+03	6.567-01	15288.6	6.438+03	3.545-09	1.609+15	1.442+15	.984501	.091673	2.3411	1.752+01
35	1.468+01	4.650+03	9.418-01	16706.5	9.232+03	4.592-09	2.085+15	1.918+15	.989253	.296583	2.2869	1.562+01
36	2.154+01	5.502+03	1.394+00	18296.3	1.367+04	6.101-09	2.770+15	2.640+15	.991315	.605874	2.2638	1.489+01
37	3.162+01	6.467+03	2.080+00	20048.3	2.040+04	8.214-09	3.729+15	3.643+15	.992282	.833531	2.2519	1.455+01
38	4.642+01	7.533+03	3.101+00	22017.3	3.043+04	1.109-08	5.037+15	4.976+15	.992796	.937303	2.2483	1.448+01
39	6.813+01	8.684+03	4.588+00	24180.5	4.504+04	1.492-08	6.772+15	6.718+15	.993071	.975750	2.2544	1.477+01
40	1.000+02	9.893+03	6.703+00	26583.4	6.581+04	1.981-08	8.995+15	8.936+15	.993249	.989836	2.2494	1.542+01

TEFF = 9000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.402-04	5331.5	2.657+01	7.933-11	3.601+13	6.936+10	.001933	.000000	.7082	2.922-03
2	4.642-05	8.702+01	1.696-03	6431.8	5.364+01	1.303-10	5.915+13	1.220+12	.022566	.000000	.9761	5.007-02
3	6.813-05	1.147+02	2.094-03	6495.6	6.622+01	1.592-10	7.228+13	1.529+12	.023162	.000000	.9658	5.916-02
4	1.000-04	1.426+02	2.588-03	6556.5	8.182+01	1.948-10	8.845+13	1.904+12	.023577	.000000	.9597	6.968-02
5	1.468-04	1.710+02	3.203-03	6617.3	1.012+02	2.388-10	1.084+14	2.367+12	.023916	.000000	.9566	8.219-02
6	2.154-04	1.999+02	3.967-03	6678.7	1.254+02	2.931-10	1.330+14	2.942+12	.024229	.000000	.9562	9.725-02
7	3.162-04	2.291+02	4.914-03	6740.8	1.554+02	3.597-10	1.633+14	3.654+12	.024525	.000000	.9587	1.153-01
8	4.642-04	2.585+02	6.087-03	6803.5	1.924+02	4.413-10	2.003+14	4.532+12	.024803	.000000	.9642	1.369-01
9	6.813-04	2.881+02	7.535-03	6866.7	2.382+02	5.411-10	2.457+14	5.619+12	.025086	.000000	.9728	1.630-01
10	1.000-03	3.179+02	9.319-03	6931.1	2.946+02	6.629-10	3.010+14	6.964+12	.025382	.000000	.9843	1.943-01
11	1.468-03	3.478+02	1.151-02	6996.2	3.640+02	8.112-10	3.683+14	8.620+12	.025685	.000000	.9986	2.318-01
12	2.154-03	3.778+02	1.421-02	7061.7	4.493+02	9.918-10	4.503+14	1.066+13	.025974	.000000	1.0159	2.767-01
13	3.162-03	4.081+02	1.753-02	7127.3	5.543+02	1.212-09	5.503+14	1.315+13	.026226	.000000	1.0364	3.298-01
14	4.642-03	4.386+02	2.163-02	7192.9	6.837+02	1.481-09	6.724+14	1.618+13	.026426	.000000	1.0607	3.926-01
15	6.813-03	4.694+02	2.668-02	7258.3	8.433+02	1.810-09	8.218+14	1.989+13	.026575	.000000	1.0896	4.668-01
16	1.000-02	5.005+02	3.291-02	7324.7	1.041+03	2.213-09	1.005+15	2.443+13	.026713	.000000	1.1242	5.551-01
17	1.468-02	5.318+02	4.060-02	7394.4	1.283+03	2.703-09	1.227+15	3.010+13	.026950	.000000	1.1661	6.629-01
18	2.154-02	5.633+02	5.001-02	7469.5	1.580+03	3.295-09	1.496+15	3.727+13	.027379	.000000	1.2150	7.967-01
19	3.162-02	5.948+02	6.144-02	7553.1	1.943+03	4.000-09	1.816+15	4.653+13	.028160	.000000	1.2720	9.681-01
20	4.642-02	6.259+02	7.515-02	7649.4	2.375+03	4.825-09	2.190+15	5.880+13	.029512	.000000	1.3388	1.196+00
21	6.813-02	6.564+02	9.126-02	7763.3	2.885+03	5.762-09	2.616+15	7.548+13	.031750	.000000	1.4173	1.508+00
22	1.000-01	6.859+02	1.098-01	7900.9	3.469+03	6.788-09	3.082+15	9.884+13	.035326	.000000	1.5103	1.958+00
23	1.468-01	7.141+02	1.303-01	8068.4	4.118+03	7.853-09	3.565+15	1.325+14	.040966	.000000	1.6182	2.627+00
24	2.154-01	7.404+02	1.524-01	8274.5	4.815+03	8.883-09	4.033+15	1.822+14	.049871	.000000	1.7448	3.674+00
25	3.162-01	7.646+02	1.750-01	8530.7	5.528+03	9.771-09	4.436+15	2.580+14	.064265	.000000	1.8955	5.403+00
26	4.642-01	7.861+02	1.967-01	8860.6	6.212+03	1.035-08	4.699+15	3.804+14	.089542	.000000	2.0799	8.537+00
27	6.813-01	8.048+02	2.163-01	9272.6	6.828+03	1.049-08	4.761+15	5.737+14	.133458	.000001	2.2901	1.427+01
28	1.000+00	8.212+02	2.332-01	9767.7	7.361+03	1.012-08	4.596+15	8.617+14	.207994	.000003	2.5069	2.425+01
29	1.468+00	8.364+02	2.481-01	10361.6	7.824+03	9.306-09	4.225+15	1.256+15	.330526	.000011	2.7087	3.961+01
30	2.154+00	8.526+02	2.621-01	11071.9	8.258+03	8.152-09	3.701+15	1.708+15	.513456	.000040	2.8610	5.749+01
31	3.162+00	8.737+02	2.782-01	11903.9	8.755+03	7.134-09	3.239+15	2.089+15	.717574	.000226	2.9239	6.695+01
32	4.642+00	9.074+02	3.010-01	12880.1	9.459+03	6.568-09	2.982+15	2.339+15	.871138	.001425	2.8845	6.119+01
33	6.813+00	9.689+02	3.413-01	13991.3	1.070+04	6.594-09	2.993+15	2.551+15	.945292	.008749	2.7659	4.657+01
34	1.000+01	1.084+03	4.208-01	15288.9	1.318+04	7.310-09	3.319+15	2.926+15	.973951	.047335	2.6431	3.515+01
35	1.468+01	1.265+03	5.673-01	16696.2	1.775+04	8.913-09	4.046+15	3.657+15	.984021	.179249	2.5644	2.962+01
36	2.154+01	1.506+03	8.109-01	18299.3	2.537+04	1.143-08	5.189+15	4.855+15	.988266	.456635	2.5253	2.719+01
37	3.162+01	1.792+03	1.187+00	20042.3	3.716+04	1.506-08	6.837+15	6.596+15	.990121	.732018	2.5086	2.648+01
38	4.642+01	2.114+03	1.749+00	22013.6	5.475+04	2.003-08	9.095+15	8.929+15	.991114	.891866	2.5066	2.626+01
39	6.813+01	2.469+03	2.572+00	24179.6	8.048+04	2.670-08	1.212+16	1.199+16	.991654	.957593	2.5105	2.661+01
40	1.000+02	2.847+03	3.749+00	26599.5	1.174+05	3.533-08	1.604+16	1.591+16	.991993	.983169	2.5030	2.762+01

TEFF = 9500

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.600-04	5680.1	1.522-02	3.579-14	1.625+10	3.171+09	.216415	.000000	1.0093	6.600-02
2	4.642-05	3.652+04	3.048-04	6375.6	2.779-02	4.386-14	1.991+10	1.167+10	.650603	.000000	1.1290	2.089-01
3	6.813-05	6.007+04	4.082-04	6442.2	3.681-02	5.747-14	2.609+10	1.531+10	.651457	.000000	1.0748	2.118-01
4	1.000-04	8.242+04	5.579-04	6510.5	5.008-02	7.754-14	3.520+10	2.052+10	.647363	.000000	1.0375	2.140-01
5	1.468-04	1.063+05	7.753-04	6581.1	6.955-02	1.070-13	4.859+10	2.798+10	.639539	.000000	1.0094	2.162-01
6	2.154-04	1.312+05	1.090-03	6656.4	9.794-02	1.497-13	6.797+10	3.864+10	.631281	.000000	.9881	2.195-01
7	3.162-04	1.568+05	1.545-03	6736.9	1.391-01	2.109-13	9.576+10	5.383+10	.624178	.000000	.9643	2.243-01
8	4.642-04	1.826+05	2.194-03	6821.2	1.982-01	2.980-13	1.353+11	7.526+10	.617760	.000000	.9447	2.311-01
9	6.813-04	2.086+05	3.115-03	6908.4	2.824-01	4.206-13	1.910+11	1.053+11	.612070	.000000	.9309	2.402-01
10	1.000-03	2.345+05	4.411-03	6997.2	4.010-01	5.915-13	2.686+11	1.468+11	.606687	.000000	.9232	2.518-01
11	1.468-03	2.602+05	6.216-03	7086.4	5.665-01	8.279-13	3.759+11	2.034+11	.600991	.000000	.9221	2.661-01
12	2.154-03	2.857+05	8.713-03	7174.6	7.953-01	1.152-12	5.231+11	2.801+11	.594513	.000000	.9287	2.835-01
13	3.162-03	3.109+05	1.214-02	7262.0	1.108+00	1.594-12	7.235+11	3.827+11	.587391	.000000	.9383	3.042-01
14	4.642-03	3.358+05	1.681-02	7346.6	1.535+00	2.192-12	9.952+11	5.186+11	.578649	.000000	.9499	3.285-01
15	6.813-03	3.604+05	2.314-02	7427.4	2.111+00	3.001-12	1.362+12	6.967+11	.567808	.000000	.9685	3.567-01
16	1.000-02	3.847+05	3.167-02	7506.9	2.882+00	4.081-12	1.853+12	9.287+11	.556528	.000000	.9951	3.906-01
17	1.468-02	4.086+05	4.303-02	7588.7	3.901+00	5.496-12	2.495+12	1.230+12	.547302	.000000	1.0298	4.329-01
18	2.154-02	4.321+05	5.795-02	7677.1	5.226+00	7.296-12	3.312+12	1.620+12	.542939	.000000	1.0727	4.876-01
19	3.162-02	4.552+05	7.720-02	7777.5	6.911+00	9.502-12	4.314+12	2.124+12	.546480	.000000	1.1242	5.601-01
20	4.642-02	4.778+05	1.015-01	7897.2	8.991+00	1.206-11	5.476+12	2.773+12	.562355	.000001	1.1846	6.589-01
21	6.813-02	5.001+05	1.316-01	8035.8	1.151+01	1.494-11	6.781+12	3.599+12	.589385	.000001	1.2400	7.824-01
22	1.000-01	5.226+05	1.687-01	8198.0	1.453+01	1.806-11	8.201+12	4.642+12	.628456	.000001	1.2979	9.370-01
23	1.468-01	5.456+05	2.139-01	8396.2	1.809+01	2.129-11	9.664+12	5.946+12	.683085	.000002	1.3595	1.131+00
24	2.154-01	5.697+05	2.690-01	8641.0	2.225+01	2.450-11	1.112+13	7.530+12	.751618	.000005	1.4178	1.357+00
25	3.162-01	5.958+05	3.373-01	8941.3	2.718+01	2.783-11	1.263+13	9.388+12	.825156	.000012	1.4643	1.584+00
26	4.642-01	6.254+05	4.252-01	9312.2	3.332+01	3.169-11	1.439+13	1.153+13	.890061	.000038	1.4908	1.762+00
27	6.813-01	6.602+05	5.442-01	9760.2	4.147+01	3.675-11	1.669+13	1.410+13	.938115	.000132	1.4999	1.869+00
28	1.000+00	7.022+05	7.135-01	10294.4	5.311+01	4.398-11	1.997+13	1.740+13	.967342	.000522	1.4883	1.885+00
29	1.468+00	7.534+05	9.648-01	10925.7	7.071+01	5.476-11	2.486+13	2.200+13	.982709	.002312	1.4641	1.839+00
30	2.154+00	8.144+05	1.346+00	11663.4	9.803+01	7.084-11	3.216+13	2.870+13	.990202	.010060	1.4408	1.768+00
31	3.162+00	8.858+05	1.932+00	12546.0	1.410+02	9.439-11	4.285+13	3.854+13	.993871	.045386	1.4156	1.674+00
32	4.642+00	9.680+05	2.838+00	13572.3	2.086+02	1.281-10	5.816+13	5.316+13	.995522	.177585	1.3950	1.599+00
33	6.813+00	1.060+06	4.220+00	14760.9	3.131+02	1.739-10	7.896+13	7.466+13	.996251	.484845	1.3797	1.547+00
34	1.000+01	1.163+06	6.320+00	16106.6	4.737+02	2.374-10	1.078+14	1.053+14	.996559	.792733	1.3626	1.492+00
35	1.468+01	1.278+06	9.524+00	17614.5	7.221+02	3.284-10	1.491+14	1.478+14	.996682	.934110	1.3423	1.433+00
36	2.154+01	1.403+06	1.439+01	19284.6	1.103+03	4.574-10	2.076+14	2.068+14	.996719	.979224	1.3291	1.396+00
37	3.162+01	1.537+06	2.164+01	21150.9	1.676+03	6.327-10	2.872+14	2.864+14	.996728	.993080	1.3240	1.386+00
38	4.642+01	1.680+06	3.226+01	23220.0	2.512+03	8.639-10	3.922+14	3.913+14	.996728	.997533	1.3275	1.405+00
39	6.813+01	1.831+06	4.747+01	25520.0	3.706+03	1.160-09	5.264+14	5.254+14	.996734	.999352	1.3391	1.451+00
40	1.000+02	1.989+06	6.889+01	28049.3	5.381+03	1.532-09	6.953+14	6.941+14	.996747	1.002325	1.3335	1.528+00

TEFF = 9500

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.996-04	5704.0	6.185-02	1.565-13	7.104+10	7.527+09	.117273	.000000	1.0271	3.806-02
2	4.642-05	1.203+04	4.105-04	6469.2	1.258-01	2.219-13	1.007+11	4.019+10	.442373	.000000	1.1072	1.589-01
3	6.813-05	1.749+04	5.454-04	6537.0	1.668-01	2.911-13	1.321+11	5.270+10	.442675	.000000	1.0688	1.635-01
4	1.000-04	2.317+04	7.374-04	6607.9	2.253-01	3.897-13	1.769+11	7.014+10	.440222	.000000	1.0400	1.683-01
5	1.468-04	2.918+04	1.011-03	6681.7	3.088-01	5.299-13	2.406+11	9.439+10	.435637	.000000	1.0164	1.738-01
6	2.154-04	3.542+04	1.398-03	6759.1	4.274-01	7.271-13	3.301+11	1.281+11	.430805	.000000	.9986	1.809-01
7	3.162-04	4.179+04	1.941-03	6839.9	5.938-01	1.001-12	4.545+11	1.746+11	.426369	.000000	.9865	1.902-01
8	4.642-04	4.820+04	2.695-03	6922.7	8.250-01	1.378-12	6.256+11	2.380+11	.422289	.000000	.9809	2.021-01
9	6.813-04	5.460+04	3.730-03	7006.8	1.143+00	1.891-12	8.584+11	3.235+11	.418465	.000000	.9766	2.168-01
10	1.000-03	6.096+04	5.142-03	7089.9	1.576+00	2.585-12	1.174+12	4.373+11	.413605	.000000	.9734	2.342-01
11	1.468-03	6.728+04	7.055-03	7169.7	2.163+00	3.525-12	1.600+12	5.862+11	.406757	.000000	.9760	2.543-01
12	2.154-03	7.355+04	9.635-03	7246.2	2.955+00	4.791-12	2.175+12	7.797+11	.397954	.000000	.9859	2.774-01
13	3.162-03	7.974+04	1.310-02	7320.3	4.015+00	6.488-12	2.945+12	1.030+12	.387988	.000000	1.0028	3.045-01
14	4.642-03	8.584+04	1.770-02	7393.2	5.425+00	8.738-12	3.967+12	1.351+12	.377854	.000000	1.0264	3.372-01
15	6.813-03	9.184+04	2.378-02	7466.5	7.280+00	1.168-11	5.305+12	1.761+12	.368494	.000000	1.0569	3.769-01
16	1.000-02	9.772+04	3.171-02	7542.4	9.694+00	1.548-11	7.028+12	2.286+12	.361087	.000000	1.0946	4.266-01
17	1.468-02	1.035+05	4.192-02	7624.9	1.279+01	2.025-11	9.193+12	2.961+12	.357409	.000000	1.1360	4.901-01
18	2.154-02	1.091+05	5.486-02	7714.5	1.670+01	2.612-11	1.186+13	3.825+12	.357937	.000000	1.1840	5.715-01
19	3.162-02	1.145+05	7.098-02	7815.2	2.153+01	3.311-11	1.503+13	4.935+12	.364410	.000000	1.2409	6.795-01
20	4.642-02	1.199+05	9.065-02	7932.7	2.738+01	4.106-11	1.864+13	6.375+12	.379764	.000000	1.3065	8.266-01
21	6.813-02	1.251+05	1.142-01	8068.3	3.432+01	4.977-11	2.259+13	8.231+12	.404468	.000000	1.3740	1.019+00
22	1.000-01	1.302+05	1.420-01	8230.4	4.238+01	5.876-11	2.668+13	1.065+13	.442975	.000001	1.4500	1.283+00
23	1.468-01	1.353+05	1.740-01	8429.8	5.152+01	6.726-11	3.054+13	1.376+13	.499721	.000001	1.5348	1.647+00
24	2.154-01	1.404+05	2.104-01	8672.7	6.167+01	7.469-11	3.391+13	1.765+13	.577593	.000002	1.6217	2.123+00
25	3.162-01	1.458+05	2.523-01	8971.5	7.300+01	8.081-11	3.669+13	2.230+13	.674600	.000006	1.7015	2.683+00
26	4.642-01	1.517+05	3.021-01	9343.1	8.605+01	8.628-11	3.917+13	2.757+13	.781249	.000018	1.7598	3.226+00
27	6.813-01	1.588+05	3.654-01	9793.5	1.022+02	9.337-11	4.239+13	3.329+13	.872920	.000063	1.7866	3.583+00
28	1.000+00	1.677+05	4.533-01	10324.9	1.247+02	1.048-10	4.756+13	3.995+13	.933070	.000250	1.7742	3.635+00
29	1.468+00	1.792+05	5.846-01	10954.9	1.587+02	1.236-10	5.611+13	4.882+13	.966197	.001118	1.7437	3.487+00
30	2.154+00	1.940+05	7.880-01	11699.4	2.122+02	1.535-10	6.969+13	6.169+13	.982439	.005102	1.7090	3.267+00
31	3.162+00	2.122+05	1.109+00	12575.4	2.979+02	1.996-10	9.061+13	8.097+13	.989967	.023242	1.6758	3.031+00
32	4.642+00	2.342+05	1.618+00	13612.4	4.358+02	2.682-10	1.218+14	1.102+14	.993418	.100496	1.6417	2.803+00
33	6.813+00	2.596+05	2.417+00	14792.3	6.546+02	3.661-10	1.662+14	1.543+14	.994900	.322399	1.6150	2.652+00
34	1.000+01	2.882+05	3.647+00	16137.2	9.943+02	5.010-10	2.274+14	2.188+14	.995555	.656128	1.5935	2.542+00
35	1.468+01	3.198+05	5.516+00	17625.8	1.513+03	6.904-10	3.134+14	3.084+14	.995835	.872976	1.5785	2.470+00
36	2.154+01	3.545+05	8.345+00	19301.1	2.303+03	9.553-10	4.337+14	4.305+14	.995960	.958227	1.5628	2.391+00
37	3.162+01	3.922+05	1.260+01	21153.0	3.494+03	1.320-09	5.995+14	5.968+14	.996006	.985702	1.5549	2.360+00
38	4.642+01	4.326+05	1.885+01	23232.1	5.246+03	1.805-09	8.194+14	8.165+14	.996029	.994839	1.5564	2.378+00
39	6.813+01	4.753+05	2.784+01	25520.6	7.763+03	2.431-09	1.104+15	1.100+15	.996044	.998086	1.5667	2.454+00
40	1.000+02	5.198+05	4.049+01	28055.2	1.130+04	3.217-09	1.461+15	1.456+15	.996065	1.000403	1.5628	2.591+00

TEFF = 9500

LOG G = 3.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RUSS)
1	0.000+00	0.000+00	1.558-04	5769.0	1.543-01	3.943-13	1.790+11	1.458+10	.090062	.000000	1.1004	3.114-02
2	4.642-05	5.545+03	4.664-04	6569.7	4.605-01	8.748-13	3.972+11	1.101+11	.307517	.000000	1.1110	1.300-01
3	6.813-05	7.151+03	6.297-04	6639.4	6.217-01	1.171-12	5.317+11	1.460+11	.304645	.000000	1.0893	1.358-01
4	1.000-04	8.823+03	8.583-04	6711.5	8.476-01	1.584-12	7.192+11	1.949+11	.300762	.000000	1.0744	1.428-01
5	1.468-04	1.054+04	1.176-03	6786.4	1.161+00	2.153-12	9.773+11	2.614+11	.296799	.000000	1.0603	1.516-01
6	2.154-04	1.227+04	1.612-03	6863.2	1.593+00	2.928-12	1.329+12	3.509+11	.292883	.000000	1.0454	1.627-01
7	3.162-04	1.402+04	2.207-03	6940.5	2.181+00	3.976-12	1.805+12	4.695+11	.288555	.000000	1.0352	1.761-01
8	4.642-04	1.575+04	3.009-03	7017.0	2.975+00	5.384-12	2.444+12	6.248+11	.283571	.000000	1.0303	1.923-01
9	6.813-04	1.747+04	4.085-03	7091.5	4.039+00	7.265-12	3.298+12	8.257+11	.277734	.000000	1.0314	2.112-01
10	1.000-03	1.917+04	5.517-03	7163.6	5.456+00	9.762-12	4.432+12	1.083+12	.271060	.000000	1.0391	2.334-01
11	1.468-03	2.084+04	7.413-03	7234.2	7.331+00	1.306-11	5.927+12	1.410+12	.264001	.000000	1.0534	2.597-01
12	2.154-03	2.249+04	9.903-03	7304.5	9.788+00	1.736-11	7.880+12	1.827+12	.257211	.000000	1.0732	2.914-01
13	3.162-03	2.411+04	1.314-02	7376.4	1.299+01	2.290-11	1.040+13	2.357+12	.251478	.000000	1.0948	3.301-01
14	4.642-03	2.570+04	1.733-02	7447.2	1.713+01	3.002-11	1.363+13	3.020+12	.245769	.000000	1.1199	3.757-01
15	6.813-03	2.727+04	2.271-02	7517.7	2.243+01	3.913-11	1.776+13	3.847+12	.240294	.000000	1.1509	4.300-01
16	1.000-02	2.881+04	2.958-02	7590.8	2.921+01	5.060-11	2.297+13	4.889+12	.236014	.000000	1.1882	4.967-01
17	1.468-02	3.032+04	3.826-02	7669.0	3.774+01	6.483-11	2.943+13	6.209+12	.233928	.000000	1.2321	5.810-01
18	2.154-02	3.180+04	4.907-02	7755.4	4.835+01	8.206-11	3.725+13	7.894+12	.235003	.000000	1.2839	6.903-01
19	3.162-02	3.324+04	6.227-02	7854.0	6.128+01	1.023-10	4.643+13	1.007+13	.240662	.000000	1.3454	8.375-01
20	4.642-02	3.463+04	7.809-02	7968.0	7.672+01	1.251-10	5.682+13	1.291+13	.252005	.000000	1.4136	1.035+00
21	6.813-02	3.599+04	9.670-02	8101.2	9.481+01	1.500-10	6.811+13	1.663+13	.270763	.000000	1.4886	1.304+00
22	1.000-01	3.730+04	1.181-01	8261.4	1.155+02	1.754-10	7.962+13	2.159+13	.300667	.000000	1.5755	1.687+00
23	1.468-01	3.858+04	1.420-01	8457.6	1.383+02	1.988-10	9.023+13	2.823+13	.346833	.000001	1.6750	2.246+00
24	2.154-01	3.983+04	1.680-01	8700.0	1.629+02	2.172-10	9.863+13	3.698+13	.415422	.000001	1.7844	3.059+00
25	3.162-01	4.108+04	1.960-01	8998.2	1.889+02	2.290-10	1.040+14	4.803+13	.512101	.000003	1.8941	4.168+00
26	4.642-01	4.240+04	2.266-01	9361.2	2.169+02	2.355-10	1.069+14	6.089+13	.632358	.000009	1.9877	5.452+00
27	6.813-01	4.390+04	2.624-01	9801.0	2.489+02	2.408-10	1.093+14	7.472+13	.759600	.000031	2.0482	6.565+00
28	1.000+00	4.579+04	3.090-01	10328.8	2.902+02	2.519-10	1.143+14	8.905+13	.865050	.000117	2.0605	7.033+00
29	1.468+00	4.834+04	3.763-01	10952.9	3.500+02	2.771-10	1.258+14	1.056+14	.931645	.000502	2.0350	6.815+00
30	2.154+00	5.186+04	4.816-01	11702.9	4.445+02	3.239-10	1.470+14	1.281+14	.966804	.002460	1.9904	6.230+00
31	3.162+00	5.659+04	6.528-01	12582.2	5.999+02	4.034-10	1.831+14	1.622+14	.982787	.011837	1.9416	5.600+00
32	4.642+00	6.263+04	9.328-01	13607.1	8.567+02	5.294-10	2.404+14	2.156+14	.989774	.054756	1.8969	5.036+00
33	6.813+00	6.996+04	1.386+00	14811.7	1.277+03	7.177-10	3.258+14	2.980+14	.992892	.204527	1.8559	4.605+00
34	1.000+01	7.833+04	2.093+00	16127.4	1.934+03	9.835-10	4.465+14	4.218+14	.994159	.492124	1.8343	4.435+00
35	1.468+01	8.763+04	3.167+00	17639.7	2.936+03	1.345-09	6.106+14	5.947+14	.994781	.781133	1.8190	4.290+00
36	2.154+01	9.790+04	4.795+00	19293.2	4.459+03	1.854-09	8.417+14	8.318+14	.995051	.920754	1.8027	4.161+00
37	3.162+01	1.091+05	7.249+00	21164.2	6.758+03	2.555-09	1.160+15	1.153+15	.995184	.972647	1.7924	4.071+00
38	4.642+01	1.212+05	1.087+01	23222.1	1.016+04	3.497-09	1.588+15	1.580+15	.995244	.989851	1.7941	4.110+00
39	6.813+01	1.340+05	1.606+01	25533.4	1.501+04	4.704-09	2.136+15	2.127+15	.995289	.996235	1.8068	4.270+00
40	1.000+02	1.473+05	2.333+01	28082.4	2.182+04	6.225-09	2.826+15	2.816+15	.995329	.998975	1.8026	4.536+00

TEFF = 9500

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	2.304-04	5778.9	7.261-01	1.928-12	8.752+11	3.400+10	.042737	.000000	1.1231	1.728-02
2	4.642-05	1.461+03	6.186-04	6672.7	1.948+00	3.970-12	1.802+12	3.098+11	.190477	.000000	1.1416	1.083-01
3	6.813-05	1.884+03	8.108-04	6740.6	2.554+00	5.154-12	2.340+12	4.007+11	.189702	.000000	1.1239	1.172-01
4	1.000-04	2.325+03	1.071-03	6809.1	3.372+00	6.749-12	3.064+12	5.196+11	.187979	.000000	1.1100	1.275-01
5	1.468-04	2.778+03	1.420-03	6878.5	4.473+00	8.881-12	4.032+12	6.749+11	.185557	.000000	1.1005	1.399-01
6	2.154-04	3.235+03	1.886-03	6947.9	5.940+00	1.170-11	5.313+12	8.756+11	.182679	.000000	1.0959	1.548-01
7	3.162-04	3.692+03	2.501-03	7016.7	7.878+00	1.541-11	6.995+12	1.132+12	.179440	.000000	1.0972	1.726-01
8	4.642-04	4.147+03	3.308-03	7085.8	1.041+01	2.023-11	9.183+12	1.460+12	.176232	.000000	1.1021	1.940-01
9	6.813-04	4.598+03	4.355-03	7155.9	1.372+01	2.643-11	1.200+13	1.877+12	.173349	.000000	1.1086	2.200-01
10	1.000-03	5.045+03	5.707-03	7225.0	1.798+01	3.439-11	1.561+13	2.398+12	.170287	.000000	1.1180	2.507-01
11	1.468-03	5.489+03	7.446-03	7292.2	2.345+01	4.458-11	2.024+13	3.045+12	.166790	.000000	1.1319	2.863-01
12	2.154-03	5.928+03	9.678-03	7357.9	3.048+01	5.760-11	2.615+13	3.846+12	.162997	.000000	1.1506	3.279-01
13	3.162-03	6.364+03	1.253-02	7423.1	3.947+01	7.416-11	3.367+13	4.835+12	.159176	.000000	1.1741	3.768-01
14	4.642-03	6.797+03	1.617-02	7489.0	5.092+01	9.509-11	4.317+13	6.063+12	.155655	.000000	1.2023	4.354-01
15	6.813-03	7.225+03	2.078-02	7556.9	6.540+01	1.213-10	5.509+13	7.591+12	.152707	.000000	1.2355	5.063-01
16	1.000-02	7.648+03	2.657-02	7628.2	8.362+01	1.539-10	6.988+13	9.503+12	.150645	.000000	1.2743	5.935-01
17	1.468-02	8.065+03	3.378-02	7704.7	1.063+02	1.938-10	8.799+13	1.191+13	.149963	.000000	1.3191	7.025-01
18	2.154-02	8.475+03	4.268-02	7789.0	1.342+02	2.419-10	1.098+14	1.497+13	.151119	.000000	1.3702	8.414-01
19	3.162-02	8.876+03	5.349-02	7883.8	1.682+02	2.985-10	1.355+14	1.892+13	.154752	.000000	1.4300	1.024+00
20	4.642-02	9.268+03	6.642-02	7993.4	2.087+02	3.633-10	1.649+14	2.410+13	.161899	.000000	1.4976	1.268+00
21	6.813-02	9.649+03	8.158-02	8122.0	2.561+02	4.347-10	1.973+14	3.097+13	.173851	.000000	1.5741	1.605+00
22	1.000-01	1.002+04	9.889-02	8278.1	3.101+02	5.086-10	2.309+14	4.033+13	.193558	.000000	1.6659	2.099+00
23	1.468-01	1.037+04	1.180-01	8470.3	3.694+02	5.783-10	2.625+14	5.327+13	.224870	.000000	1.7742	2.846+00
24	2.154-01	1.070+04	1.382-01	8707.7	4.321+02	6.348-10	2.882+14	7.112+13	.273648	.000001	1.8977	4.000+00
25	3.162-01	1.102+04	1.591-01	9000.4	4.962+02	6.694-10	3.039+14	9.529+13	.347634	.000002	2.0322	5.751+00
26	4.642-01	1.134+04	1.804-01	9360.2	5.609+02	6.776-10	3.076+14	1.261+14	.455009	.000005	2.1652	8.226+00
27	6.813-01	1.167+04	2.028-01	9796.4	6.279+02	6.660-10	3.024+14	1.619+14	.595002	.000015	2.2768	1.114+01
28	1.000+00	1.206+04	2.287-01	10322.2	7.044+02	6.517-10	2.959+14	1.983+14	.744493	.000056	2.3356	1.326+01
29	1.468+00	1.259+04	2.632-01	10946.5	8.061+02	6.608-10	3.000+14	2.333+14	.863660	.000235	2.3345	1.358+01
30	2.154+00	1.336+04	3.161-01	11699.2	9.623+02	7.122-10	3.234+14	2.724+14	.935442	.001153	2.2899	1.241+01
31	3.162+00	1.450+04	4.032-01	12575.9	1.223+03	8.278-10	3.758+14	3.282+14	.969014	.005843	2.2290	1.079+01
32	4.642+00	1.610+04	5.520-01	13618.6	1.670+03	1.036-09	4.703+14	4.178+14	.983631	.028825	2.1620	9.267+00
33	6.813+00	1.819+04	8.013-01	14796.1	2.424+03	1.373-09	6.235+14	5.629+14	.989570	.117572	2.1117	8.296+00
34	1.000+01	2.068+04	1.201+00	16148.1	3.639+03	1.864-09	8.462+14	7.856+14	.992190	.349865	2.0782	7.741+00
35	1.468+01	2.348+04	1.813+00	17622.1	5.502+03	2.541-09	1.154+15	1.107+15	.993326	.655465	2.0636	7.551+00
36	2.154+01	2.658+04	2.740+00	19309.1	8.329+03	3.472-09	1.576+15	1.547+15	.993909	.865046	2.0466	7.271+00
37	3.162+01	3.000+04	4.136+00	21152.0	1.259+04	4.771-09	2.166+15	2.145+15	.994177	.950339	2.0391	7.196+00
38	4.642+01	3.366+04	6.182+00	23235.5	1.884+04	6.486-09	2.945+15	2.927+15	.994333	.981686	2.0427	7.287+00
39	6.813+01	3.755+04	9.107+00	25517.1	2.776+04	8.701-09	3.950+15	3.930+15	.994424	.992768	2.0555	7.570+00
40	1.000+02	4.160+04	1.320+01	28072.3	4.025+04	1.147-08	5.209+15	5.185+15	.994504	.997212	2.0509	8.010+00

TEFF = 9500

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	F	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	3.794-04	5761.0	3.791+00	1.034-11	4.692+12	7.534+10	.017476	.000000	1.1244	9.814-03
2	4.642-05	3.273+02	7.993-04	6735.8	7.983+00	1.726-11	7.834+12	7.517+11	.106180	.000000	1.1806	9.516-02
3	6.813-05	4.385+02	1.014-03	6802.0	1.012+01	2.166-11	9.835+12	9.499+11	.106892	.000000	1.1717	1.072-01
4	1.000-04	5.522+02	1.292-03	6867.9	1.290+01	2.733-11	1.241+13	1.202+12	.107150	.000000	1.1646	1.215-01
5	1.468-04	6.687+02	1.651-03	6934.1	1.649+01	3.461-11	1.571+13	1.520+12	.107036	.000000	1.1598	1.383-01
6	2.154-04	7.872+02	2.114-03	7000.5	2.111+01	4.389-11	1.992+13	1.920+12	.106653	.000000	1.1583	1.583-01
7	3.162-04	9.069+02	2.705-03	7066.7	2.701+01	5.567-11	2.527+13	2.422+12	.106032	.000000	1.1603	1.822-01
8	4.642-04	1.027+03	3.459-03	7132.2	3.453+01	7.058-11	3.204+13	3.043+12	.105083	.000000	1.1657	2.102-01
9	6.813-04	1.148+03	4.416-03	7196.8	4.410+01	8.940-11	4.059+13	3.811+12	.103888	.000000	1.1753	2.431-01
10	1.000-03	1.268+03	5.630-03	7260.4	5.622+01	1.131-10	5.135+13	4.755+12	.102450	.000000	1.1890	2.817-01
11	1.468-03	1.389+03	7.165-03	7323.9	7.155+01	1.429-10	6.487+13	5.917+12	.100912	.000000	1.2070	3.272-01
12	2.154-03	1.509+03	9.103-03	7387.5	9.090+01	1.802-10	8.180+13	7.347+12	.099357	.000000	1.2291	3.810-01
13	3.162-03	1.629+03	1.154-02	7453.6	1.152+02	2.266-10	1.029+14	9.127+12	.098159	.000000	1.2538	4.459-01
14	4.642-03	1.750+03	1.459-02	7520.2	1.456+02	2.842-10	1.290+14	1.132+13	.096997	.000000	1.2812	5.226-01
15	6.813-03	1.869+03	1.841-02	7587.4	1.838+02	3.557-10	1.615+14	1.400+13	.095861	.000000	1.3126	6.131-01
16	1.000-02	1.989+03	2.319-02	7656.5	2.315+02	4.442-10	2.017+14	1.731+13	.094933	.000000	1.3490	7.214-01
17	1.468-02	2.109+03	2.912-02	7729.6	2.907+02	5.528-10	2.510+14	2.144+13	.094521	.000000	1.3915	8.541-01
18	2.154-02	2.228+03	3.644-02	7809.3	3.637+02	6.844-10	3.107+14	2.668+13	.095004	.000000	1.4412	1.021+00
19	3.162-02	2.345+03	4.536-02	7899.8	4.526+02	8.406-10	3.816+14	3.345+13	.096999	.000000	1.5003	1.240+00
20	4.642-02	2.460+03	5.605-02	8004.9	5.591+02	1.021-09	4.637+14	4.235+13	.101081	.000000	1.5666	1.532+00
21	6.813-02	2.572+03	6.860-02	8129.6	6.841+02	1.223-09	5.553+14	5.432+13	.108276	.000000	1.6441	1.939+00
22	1.000-01	2.680+03	8.291-02	8281.8	8.265+02	1.437-09	6.522+14	7.087+13	.120286	.000000	1.7376	2.538+00
23	1.468-01	2.782+03	9.866-02	8469.6	9.831+02	1.645-09	7.467+14	9.417+13	.139619	.000000	1.8487	3.453+00
24	2.154-01	2.878+03	1.153-01	8702.2	1.148+03	1.824-09	8.282+14	1.275+14	.170375	.000000	1.9786	4.899+00
25	3.162-01	2.967+03	1.321-01	8990.8	1.315+03	1.948-09	8.844+14	1.750+14	.219167	.000001	2.1269	7.231+00
26	4.642-01	3.050+03	1.487-01	9348.0	1.478+03	1.990-09	9.035+14	2.414+14	.296125	.000002	2.2847	1.090+01
27	6.813-01	3.132+03	1.648-01	9785.9	1.635+03	1.944-09	8.825+14	3.282+14	.412391	.000008	2.4420	1.630+01
28	1.000+00	3.219+03	1.812-01	10313.4	1.794+03	1.837-09	8.339+14	4.275+14	.569765	.000026	2.5622	2.230+01
29	1.468+00	3.327+03	2.003-01	10942.5	1.977+03	1.733-09	7.869+14	5.228+14	.738261	.000102	2.6170	2.597+01
30	2.154+00	3.481+03	2.269-01	11692.9	2.232+03	1.709-09	7.757+14	6.065+14	.868583	.000520	2.6013	2.537+01
31	3.162+00	3.723+03	2.693-01	12573.0	2.640+03	1.814-09	8.236+14	6.976+14	.939948	.002748	2.5392	2.204+01
32	4.642+00	4.106+03	3.438-01	13610.5	3.362+03	2.101-09	9.539+14	8.359+14	.971391	.014425	2.4527	1.808+01
33	6.813+00	4.662+03	4.753-01	14795.1	4.643+03	2.646-09	1.201+15	1.072+15	.983858	.064662	2.3797	1.535+01
34	1.000+01	5.383+03	6.955-01	16144.8	6.795+03	3.510-09	1.594+15	1.456+15	.989027	.225398	2.3310	1.384+01
35	1.468+01	6.228+03	1.041+00	17631.5	1.018+04	4.741-09	2.152+15	2.031+15	.991250	.512673	2.3096	1.329+01
36	2.154+01	7.173+03	1.565+00	19308.9	1.531+04	6.417-09	2.913+15	2.830+15	.992353	.779479	2.2984	1.301+01
37	3.162+01	8.210+03	2.343+00	21160.0	2.294+04	8.712-09	3.955+15	3.898+15	.992906	.914283	2.2931	1.292+01
38	4.642+01	9.332+03	3.484+00	23233.5	3.412+04	1.177-08	5.342+15	5.296+15	.993216	.967548	2.2959	1.306+01
39	6.813+01	1.053+04	5.120+00	25521.7	5.016+04	1.573-08	7.141+15	7.094+15	.993399	.986870	2.3074	1.351+01
40	1.000+02	1.178+04	7.415+00	28055.3	7.265+04	2.072-08	9.405+15	9.351+15	.993531	.994376	2.3031	1.430+01

TEFF = 9500

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	3.944-04	5806.0	1.247+01	3.391-11	1.540+13	1.547+11	.010842	.000000	1.1970	9.632-03
2	4.642-05	9.132+01	7.737-04	6792.2	2.446+01	5.409-11	2.456+13	1.519+12	.068142	.000000	1.2463	1.027-01
3	6.813-05	1.245+02	9.713-04	6854.4	3.070+01	6.728-11	3.054+13	1.893+12	.068432	.000000	1.2364	1.181-01
4	1.000-04	1.576+02	1.221-03	6916.8	3.860+01	8.383-11	3.806+13	2.357+12	.068411	.000000	1.2319	1.363-01
5	1.468-04	1.915+02	1.539-03	6978.8	4.864+01	1.047-10	4.755+13	2.932+12	.068113	.000000	1.2304	1.577-01
6	2.154-04	2.259+02	1.942-03	7040.5	6.137+01	1.311-10	5.950+13	3.643+12	.067617	.000000	1.2324	1.829-01
7	3.162-04	2.606+02	2.451-03	7102.2	7.746+01	1.641-10	7.449+13	4.520+12	.067017	.000000	1.2382	2.129-01
8	4.642-04	2.955+02	3.092-03	7164.0	9.772+01	2.053-10	9.323+13	5.601+12	.066337	.000000	1.2482	2.484-01
9	6.813-04	3.305+02	3.896-03	7227.8	1.231+02	2.566-10	1.165+14	6.947+12	.065862	.000000	1.2600	2.914-01
10	1.000-03	3.655+02	4.902-03	7291.7	1.549+02	3.201-10	1.453+14	8.598+12	.065335	.000000	1.2742	3.421-01
11	1.468-03	4.006+02	6.158-03	7355.7	1.946+02	3.989-10	1.811+14	1.062+13	.064759	.000000	1.2916	4.018-01
12	2.154-03	4.359+02	7.729-03	7419.7	2.443+02	4.965-10	2.254+14	1.309+13	.064123	.000000	1.3120	4.721-01
13	3.162-03	4.712+02	9.690-03	7484.0	3.062+02	6.175-10	2.804+14	1.611+13	.063444	.000000	1.3357	5.547-01
14	4.642-03	5.067+02	1.214-02	7548.5	3.836+02	7.675-10	3.484+14	1.980+13	.062731	.000000	1.3627	6.519-01
15	6.813-03	5.425+02	1.520-02	7614.0	4.804+02	9.532-10	4.327+14	2.431+13	.062021	.000000	1.3937	7.666-01
16	1.000-02	5.783+02	1.902-02	7681.1	6.009+02	1.183-09	5.369+14	2.985+13	.061392	.000000	1.4293	9.029-01
17	1.468-02	6.143+02	2.376-02	7751.5	7.509+02	1.465-09	6.651+14	3.674+13	.060998	.000000	1.4707	1.068+00
18	2.154-02	6.503+02	2.963-02	7827.8	9.363+02	1.809-09	8.211+14	4.541+13	.061092	.000000	1.5193	1.273+00
19	3.162-02	6.861+02	3.681-02	7915.2	1.163+03	2.220-09	1.008+15	5.667+13	.062129	.000000	1.5770	1.540+00
20	4.642-02	7.213+02	4.544-02	8016.4	1.436+03	2.700-09	1.226+15	7.149+13	.064428	.000000	1.6418	1.893+00
21	6.813-02	7.556+02	5.564-02	8136.8	1.758+03	3.245-09	1.473+15	9.147+13	.068623	.000000	1.7178	2.381+00
22	1.000-01	7.888+02	6.736-02	8283.3	2.127+03	3.836-09	1.742+15	1.192+14	.075665	.000000	1.8087	3.088+00
23	1.468-01	8.203+02	8.039-02	8464.4	2.538+03	4.436-09	2.014+15	1.586+14	.087168	.000000	1.9172	4.160+00
24	2.154-01	8.498+02	9.427-02	8689.9	2.976+03	4.989-09	2.265+15	2.163+14	.105708	.000000	2.0461	5.856+00
25	3.162-01	8.768+02	1.084-01	8972.5	3.421+03	5.420-09	2.461+15	3.019+14	.135920	.000001	2.1979	8.655+00
26	4.642-01	9.015+02	1.221-01	9327.6	3.852+03	5.643-09	2.562+15	4.298+14	.185957	.000001	2.3708	1.339+01
27	6.813-01	9.241+02	1.349-01	9765.1	4.251+03	5.598-09	2.541+15	6.134+14	.267699	.000004	2.5551	2.120+01
28	1.000+00	9.460+02	1.468-01	10290.4	4.625+03	5.296-09	2.404+15	8.522+14	.393398	.000014	2.7219	3.218+01
29	1.468+00	9.703+02	1.591-01	10923.2	5.006+03	4.844-09	2.199+15	1.122+15	.566349	.000045	2.8451	4.390+01
30	2.154+00	1.002+03	1.736-01	11677.6	5.452+03	4.450-09	2.020+15	1.362+15	.749135	.000222	2.8939	4.985+01
31	3.162+00	1.049+03	1.945-01	12560.3	6.098+03	4.321-09	1.962+15	1.554+15	.879769	.001210	2.8607	4.625+01
32	4.642+00	1.130+03	2.299-01	13604.7	7.196+03	4.554-09	2.068+15	1.763+15	.946252	.006847	2.7644	3.718+01
33	6.813+00	1.264+03	2.956-01	14780.1	9.236+03	5.306-09	2.409+15	2.118+15	.972774	.033235	2.6694	2.995+01
34	1.000+01	1.458+03	4.119-01	16147.7	1.286+04	6.694-09	3.039+15	2.733+15	.983665	.135093	2.5983	2.557+01
35	1.468+01	1.704+03	6.012-01	17626.6	1.878+04	8.827-09	4.008+15	3.712+15	.988002	.364535	2.5657	2.408+01
36	2.154+01	1.987+03	8.910-01	19311.2	2.784+04	1.176-08	5.337+15	5.110+15	.990131	.659566	2.5534	2.343+01
37	3.162+01	2.303+03	1.322+00	21157.0	4.132+04	1.576-08	7.156+15	6.999+15	.991187	.854754	2.5493	2.336+01
38	4.642+01	2.648+03	1.954+00	23237.3	6.107+04	2.111-08	9.584+15	9.465+15	.991788	.943329	2.5514	2.352+01
39	6.813+01	3.020+03	2.863+00	25520.8	8.951+04	2.811-08	1.276+16	1.266+16	.992128	.976729	2.5621	2.427+01
40	1.000+02	3.412+03	4.142+00	28064.4	1.294+05	3.696-08	1.678+16	1.666+16	.992365	.990412	2.5575	2.562+01



TEFF = 10000

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.103-04	6080.4	7.071-03	1.161-14	5.269+09	3.152+09	.664073	.000000	1.4108	2.003-01
2	4.642-05	5.339+04	1.905-04	6627.1	1.354-02	1.800-14	8.172+09	6.623+09	.901731	.000000	1.2050	2.752-01
3	6.813-05	9.382+04	2.695-04	6691.2	2.022-02	2.679-14	1.216+10	9.719+09	.887678	.000000	1.1775	2.746-01
4	1.000-04	1.293+05	3.855-04	6764.7	3.012-02	3.970-14	1.802+10	1.422+10	.876268	.000000	1.1533	2.755-01
5	1.468-04	1.643+05	5.546-04	6841.9	4.469-02	5.856-14	2.658+10	2.071+10	.865420	.000000	1.1354	2.777-01
6	2.154-04	1.988+05	8.001-04	6924.6	6.592-02	8.576-14	3.893+10	3.001+10	.856104	.000000	1.1245	2.819-01
7	3.162-04	2.329+05	1.154-03	7013.5	9.660-02	1.245-13	5.654+10	4.322+10	.848924	.000000	1.1171	2.883-01
8	4.642-04	2.667+05	1.659-03	7108.6	1.406-01	1.793-13	8.141+10	6.187+10	.843954	.000000	1.1042	2.969-01
9	6.813-04	3.000+05	2.376-03	7207.2	2.034-01	2.563-13	1.164+11	8.803+10	.840097	.000000	1.0923	3.081-01
10	1.000-03	3.330+05	3.387-03	7307.7	2.920-01	3.636-13	1.651+11	1.244+11	.836791	.000001	1.0858	3.223-01
11	1.468-03	3.657+05	4.798-03	7408.9	4.161-01	5.117-13	2.323+11	1.744+11	.833649	.000001	1.0847	3.400-01
12	2.154-03	3.979+05	6.755-03	7509.4	5.879-01	7.146-13	3.244+11	2.425+11	.830147	.000001	1.0896	3.614-01
13	3.162-03	4.298+05	9.445-03	7608.1	8.233-01	9.901-13	4.495+11	3.343+11	.825946	.000001	1.1007	3.871-01
14	4.642-03	4.614+05	1.312-02	7704.4	1.143+00	1.361-12	6.181+11	4.568+11	.820880	.000001	1.1152	4.176-01
15	6.813-03	4.926+05	1.810-02	7796.3	1.576+00	1.860-12	8.446+11	6.191+11	.814150	.000001	1.1293	4.531-01
16	1.000-02	5.235+05	2.481-02	7882.4	2.154+00	2.528-12	1.148+12	8.317+11	.805121	.000002	1.1526	4.950-01
17	1.468-02	5.540+05	3.380-02	7967.2	2.921+00	3.407-12	1.547+12	1.108+12	.795791	.000002	1.1811	5.447-01
18	2.154-02	5.843+05	4.576-02	8052.5	3.929+00	4.556-12	2.069+12	1.466+12	.786946	.000002	1.2092	6.024-01
19	3.162-02	6.143+05	6.155-02	8143.5	5.241+00	6.030-12	2.737+12	1.924+12	.780724	.000002	1.2476	6.726-01
20	4.642-02	6.442+05	8.219-02	8250.9	6.919+00	7.853-12	3.565+12	2.510+12	.781729	.000003	1.2922	7.598-01
21	6.813-02	6.742+05	1.088-01	8383.4	9.032+00	1.003-11	4.553+12	3.251+12	.793061	.000004	1.3403	8.673-01
22	1.000-01	7.045+05	1.430-01	8549.2	1.165+01	1.254-11	5.693+12	4.181+12	.815276	.000006	1.3881	9.958-01
23	1.468-01	7.358+05	1.867-01	8756.7	1.489+01	1.539-11	6.986+12	5.334+12	.847533	.000011	1.4325	1.141+00
24	2.154-01	7.690+05	2.429-01	9015.8	1.893+01	1.864-11	8.461+12	6.742+12	.884654	.000022	1.4699	1.291+00
25	3.162-01	8.049+05	3.168-01	9335.9	2.405+01	2.248-11	1.021+13	8.454+12	.919588	.000054	1.4962	1.426+00
26	4.642-01	8.451+05	4.163-01	9728.4	3.081+01	2.724-11	1.237+13	1.058+13	.949455	.000156	1.5119	1.532+00
27	6.813-01	8.908+05	5.547-01	10201.0	4.016+01	3.351-11	1.521+13	1.330+13	.970260	.000522	1.5125	1.589+00
28	1.000+00	9.438+05	7.549-01	10762.6	5.374+01	4.224-11	1.918+13	1.697+13	.982858	.001947	1.4997	1.594+00
29	1.468+00	1.005+06	1.051+00	11434.9	7.416+01	5.467-11	2.482+13	2.214+13	.989946	.007752	1.4829	1.564+00
30	2.154+00	1.076+06	1.498+00	12230.5	1.056+02	7.256-11	3.294+13	2.957+13	.993613	.032291	1.4629	1.511+00
31	3.162+00	1.156+06	2.179+00	13170.9	1.544+02	9.791-11	4.445+13	4.042+13	.995416	.132990	1.4452	1.454+00
32	4.642+00	1.247+06	3.212+00	14267.4	2.294+02	1.324-10	6.013+13	5.626+13	.996258	.372175	1.4317	1.413+00
33	6.813+00	1.347+06	4.770+00	15517.4	3.437+02	1.794-10	8.147+13	7.890+13	.996628	.702433	1.4179	1.377+00
34	1.000+01	1.459+06	7.133+00	16934.2	5.196+02	2.461-10	1.117+14	1.104+14	.996785	.898259	1.3985	1.324+00
35	1.468+01	1.583+06	1.073+01	18514.3	7.914+02	3.415-10	1.550+14	1.542+14	.996839	.968232	1.3828	1.283+00
36	2.154+01	1.717+06	1.613+01	20282.4	1.203+03	4.734-10	2.149+14	2.143+14	.996851	.989789	1.3742	1.264+00
37	3.162+01	1.859+06	2.410+01	22247.3	1.810+03	6.498-10	2.950+14	2.943+14	.996850	.996433	1.3740	1.270+00
38	4.642+01	2.011+06	3.561+01	24431.9	2.687+03	8.778-10	3.985+14	3.977+14	.996850	.998794	1.3822	1.302+00
39	6.813+01	2.174+06	5.195+01	26873.9	3.923+03	1.167-09	5.298+14	5.288+14	.996859	1.000916	1.3936	1.357+00
40	1.000+02	2.351+06	7.497+01	29665.3	5.656+03	1.535-09	6.970+14	6.962+14	.996877	1.006858	1.3848	1.445+00

TEFF = 10000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.146-04	6131.8	3.175-02	5.947-14	2.700+10	1.048+10	.430800	.000000	1.4555	1.386-01
2	4.642-05	1.519+04	2.213-04	6730.3	6.324-02	8.871-14	4.027+10	2.770+10	.765162	.000000	1.2589	2.540-01
3	6.813-05	2.374+04	3.064-04	6799.9	8.864-02	1.238-13	5.622+10	3.810+10	.752874	.000000	1.2446	2.569-01
4	1.000-04	3.207+04	4.293-04	6877.3	1.254-01	1.741-13	7.904+10	5.289+10	.743271	.000000	1.2263	2.619-01
5	1.468-04	4.057+04	6.056-04	6958.2	1.782-01	2.459-13	1.116+11	7.375+10	.733764	.000000	1.2047	2.687-01
6	2.154-04	4.914+04	8.569-04	7042.3	2.538-01	3.477-13	1.578+11	1.030+11	.724529	.000000	1.1905	2.777-01
7	3.162-04	5.771+04	1.212-03	7130.0	3.605-01	4.901-13	2.225+11	1.436+11	.716466	.000000	1.1817	2.899-01
8	4.642-04	6.624+04	1.708-03	7221.0	5.100-01	6.871-13	3.119+11	1.994+11	.709850	.000000	1.1781	3.058-01
9	6.813-04	7.470+04	2.395-03	7314.1	7.169-01	9.564-13	4.342+11	2.753+11	.704237	.000000	1.1801	3.258-01
10	1.000-03	8.305+04	3.336-03	7408.2	1.000+00	1.321-12	5.999+11	3.776+11	.699070	.000000	1.1852	3.505-01
11	1.468-03	9.130+04	4.616-03	7501.2	1.385+00	1.813-12	8.231+11	5.139+11	.693417	.000000	1.1868	3.798-01
12	2.154-03	9.944+04	6.344-03	7588.5	1.905+00	2.477-12	1.125+12	6.932+11	.684590	.000000	1.1930	4.134-01
13	3.162-03	1.075+05	8.669-03	7669.6	2.603+00	3.373-12	1.531+12	9.269+11	.672331	.000000	1.2077	4.524-01
14	4.642-03	1.154+05	1.178-02	7745.8	3.535+00	4.573-12	2.076+12	1.229+12	.657605	.000001	1.2306	4.978-01
15	6.813-03	1.231+05	1.591-02	7820.0	4.769+00	6.164-12	2.799+12	1.618+12	.642124	.000001	1.2612	5.520-01
16	1.000-02	1.308+05	2.135-02	7895.5	6.386+00	8.243-12	3.742+12	2.116+12	.627880	.000001	1.2986	6.179-01
17	1.468-02	1.382+05	2.846-02	7975.5	8.846+00	1.091-11	4.953+12	2.751+12	.616793	.000001	1.3384	6.981-01
18	2.154-02	1.456+05	3.765-02	8061.7	1.118+01	1.429-11	6.487+12	3.560+12	.609302	.000001	1.3770	7.938-01
19	3.162-02	1.528+05	4.946-02	8156.9	1.462+01	1.849-11	8.393+12	4.590+12	.607251	.000001	1.4213	9.125-01
20	4.642-02	1.600+05	6.442-02	8268.7	1.893+01	2.352-11	1.068+13	5.907+12	.614264	.000001	1.4733	1.066+00
21	6.813-02	1.670+05	8.307-02	8405.5	2.424+01	2.928-11	1.329+13	7.591+12	.634184	.000002	1.5316	1.264+00
22	1.000-01	1.741+05	1.059-01	8575.7	3.063+01	3.555-11	1.614+13	9.730+12	.669156	.000003	1.5940	1.521+00
23	1.468-01	1.813+05	1.338-01	8787.8	3.827+01	4.215-11	1.913+13	1.240+13	.719469	.000005	1.6562	1.835+00
24	2.154-01	1.888+05	1.679-01	9051.7	4.739+01	4.905-11	2.227+13	1.565+13	.780275	.000011	1.7111	2.185+00
25	3.162-01	1.968+05	2.104-01	9374.7	5.854+01	5.658-11	2.569+13	1.954+13	.844462	.000028	1.7539	2.528+00
26	4.642-01	2.059+05	2.656-01	9768.4	7.275+01	6.560-11	2.978+13	2.416+13	.900665	.000080	1.7792	2.799+00
27	6.813-01	2.164+05	3.409-01	10240.7	9.202+01	7.756-11	3.521+13	2.986+13	.941751	.000260	1.7827	2.938+00
28	1.000+00	2.290+05	4.492-01	10801.1	1.198+02	9.455-11	4.292+13	3.739+13	.967322	.000949	1.7678	2.938+00
29	1.468+00	2.442+05	6.107-01	11474.5	1.616+02	1.192-10	5.414+13	4.788+13	.981887	.003938	1.7456	2.853+00
30	2.154+00	2.622+05	8.571-01	12265.1	2.263+02	1.555-10	7.059+13	6.301+13	.989339	.016363	1.7205	2.723+00
31	3.162+00	2.834+05	1.239+00	13200.6	3.276+02	2.082-10	9.452+13	8.515+13	.993033	.068805	1.6944	2.571+00
32	4.642+00	3.077+05	1.832+00	14297.9	4.867+02	2.828-10	1.284+14	1.180+14	.994787	.236039	1.6692	2.436+00
33	6.813+00	3.351+05	2.742+00	15544.0	7.331+02	3.854-10	1.750+14	1.664+14	.995566	.544728	1.6498	2.346+00
34	1.000+01	3.658+05	4.129+00	16966.7	1.111+03	5.278-10	2.396+14	2.345+14	.995923	.817100	1.6311	2.257+00
35	1.468+01	3.996+05	6.237+00	18539.1	1.689+03	7.298-10	3.313+14	3.283+14	.996071	.938019	1.6157	2.192+00
36	2.154+01	4.364+05	9.411+00	20307.8	2.564+03	1.009-09	4.581+14	4.559+14	.996133	.979502	1.6041	2.144+00
37	3.162+01	4.760+05	1.412+01	22262.9	3.864+03	1.386-09	6.293+14	6.271+14	.996153	.992709	1.6019	2.146+00
38	4.642+01	5.182+05	2.095+01	24451.5	5.749+03	1.877-09	8.523+14	8.497+14	.996167	.997249	1.6084	2.191+00
39	6.813+01	5.631+05	3.066+01	26874.7	8.418+03	2.503-09	1.137+15	1.134+15	.996181	.999518	1.6220	2.286+00
40	1.000+02	6.103+05	4.421+01	29587.8	1.214+04	3.287-09	1.492+15	1.489+15	.996207	1.003402	1.6158	2.444+00

TEFF = 10000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.134-04	6186.7	1.084-01	2.229-13	1.012+11	2.568+10	.281558	.000000	1.5122	9.907-02
2	4.642-05	5.187+03	2.530-04	6839.4	2.446-01	3.711-13	1.685+11	9.043+10	.595995	.000000	1.3134	2.293-01
3	6.813-05	7.341+03	3.461-04	6913.8	3.359-01	5.067-13	2.300+11	1.217+11	.587454	.000000	1.2959	2.369-01
4	1.000-04	9.552+03	4.779-04	6990.8	4.651-01	6.976-13	3.167+11	1.649+11	.578381	.000000	1.2833	2.467-01
5	1.468-04	1.180+04	6.627-04	7071.3	6.464-01	9.633-13	4.373+11	2.244+11	.569856	.000000	1.2764	2.595-01
6	2.154-04	1.406+04	9.189-04	7154.9	8.978-01	1.328-12	6.031+11	3.054+11	.562313	.000000	1.2761	2.761-01
7	3.162-04	1.631+04	1.270-03	7241.6	1.243+00	1.823-12	8.277+11	4.146+11	.556252	.000000	1.2711	2.971-01
8	4.642-04	1.854+04	1.747-03	7328.4	1.711+00	2.490-12	1.130+12	5.597+11	.549908	.000000	1.2649	3.225-01
9	6.813-04	2.074+04	2.389-03	7412.7	2.341+00	3.385-12	1.537+12	7.500+11	.542042	.000000	1.2646	3.526-01
10	1.000-03	2.292+04	3.249-03	7493.3	3.185+00	4.583-12	2.081+12	9.971+11	.532089	.000000	1.2705	3.877-01
11	1.468-03	2.507+04	4.394-03	7569.6	4.309+00	6.184-12	2.807+12	1.314+12	.519745	.000000	1.2831	4.280-01
12	2.154-03	2.718+04	5.913-03	7641.8	5.797+00	8.316-12	3.775+12	1.718+12	.505339	.000000	1.3025	4.748-01
13	3.162-03	2.926+04	7.916-03	7711.4	7.759+00	1.114-11	5.056+12	2.230+12	.489932	.000000	1.3293	5.299-01
14	4.642-03	3.130+04	1.054-02	7781.6	1.033+01	1.482-11	6.728+12	2.881+12	.475451	.000000	1.3607	5.959-01
15	6.813-03	3.329+04	1.395-02	7853.8	1.366+01	1.958-11	8.888+12	3.703+12	.462710	.000000	1.3938	6.752-01
16	1.000-02	3.526+04	1.836-02	7927.1	1.795+01	2.568-11	1.166+13	4.736+12	.451123	.000000	1.4302	7.696-01
17	1.468-02	3.718+04	2.401-02	8003.9	2.344+01	3.342-11	1.517+13	6.038+12	.441884	.000000	1.4681	8.825-01
18	2.154-02	3.908+04	3.122-02	8086.9	3.043+01	4.310-11	1.957+13	7.684+12	.436051	.000000	1.5108	1.021+00
19	3.162-02	4.094+04	4.029-02	8181.6	3.919+01	5.485-11	2.490+13	9.786+12	.436343	.000001	1.5621	1.201+00
20	4.642-02	4.276+04	5.151-02	8294.6	4.996+01	6.854-11	3.112+13	1.250+13	.445999	.000001	1.6219	1.440+00
21	6.813-02	4.455+04	6.507-02	8432.7	6.292+01	8.371-11	3.801+13	1.603+13	.468041	.000001	1.6903	1.766+00
22	1.000-01	4.630+04	8.113-02	8603.3	7.811+01	9.949-11	4.517+13	2.058+13	.505529	.000002	1.7664	2.210+00
23	1.468-01	4.805+04	9.983-02	8814.3	9.559+01	1.149-10	5.215+13	2.639+13	.561556	.000003	1.8466	2.799+00
24	2.154-01	4.982+04	1.215-01	9074.6	1.156+02	1.292-10	5.865+13	3.360+13	.635748	.000006	1.9238	3.527+00
25	3.162-01	5.170+04	1.471-01	9396.6	1.389+02	1.425-10	6.471+13	4.229+13	.725253	.000014	1.9912	4.336+00
26	4.642-01	5.380+04	1.784-01	9790.1	1.669+02	1.568-10	7.118+13	5.228+13	.815346	.000041	2.0369	5.047+00
27	6.813-01	5.627+04	2.195-01	10259.7	2.034+02	1.757-10	7.978+13	6.383+13	.888569	.000131	2.0511	5.444+00
28	1.000+00	5.934+04	2.776-01	10818.1	2.551+02	2.039-10	9.258+13	7.819+13	.937880	.000479	2.0395	5.480+00
29	1.468+00	6.321+04	3.645-01	11488.4	3.327+02	2.470-10	1.121+14	9.764+13	.966823	.001989	2.0140	5.281+00
30	2.154+00	6.803+04	4.987-01	12277.7	4.536+02	3.127-10	1.420+14	1.256+14	.981742	.008422	1.9819	4.961+00
31	3.162+00	7.391+04	7.104-01	13211.9	6.458+02	4.116-10	1.869+14	1.671+14	.989070	.036132	1.9471	4.591+00
32	4.642+00	8.090+04	1.047+00	14305.8	9.537+02	5.574-10	2.530+14	2.296+14	.992523	.140194	1.9119	4.250+00
33	6.813+00	8.892+04	1.572+00	15556.8	1.438+03	7.621-10	3.460+14	3.231+14	.994093	.385477	1.8874	4.045+00
34	1.000+01	9.787+04	2.373+00	16969.7	2.177+03	1.041-09	4.727+14	4.565+14	.994816	.698670	1.8720	3.929+00
35	1.468+01	1.078+05	3.583+00	18543.4	3.300+03	1.430-09	6.492+14	6.395+14	.995150	.886848	1.8558	3.808+00
36	2.154+01	1.186+05	5.416+00	20311.6	5.004+03	1.972-09	8.953+14	8.886+14	.995306	.961021	1.8419	3.700+00
37	3.162+01	1.304+05	8.147+00	22267.1	7.546+03	2.710-09	1.230+15	1.224+15	.995374	.985935	1.8375	3.694+00
38	4.642+01	1.429+05	1.211+01	24444.8	1.124+04	3.673-09	1.668+15	1.661+15	.995414	.994608	1.8453	3.782+00
39	6.813+01	1.561+05	1.771+01	26869.0	1.643+04	4.891-09	2.221+15	2.212+15	.995450	.998111	1.8622	3.977+00
40	1.000+02	1.699+05	2.548+01	29567.0	2.364+04	6.404-09	2.908+15	2.899+15	.995492	1.001049	1.8575	4.261+00

TEFF = 10000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.447-04	6220.4	4.507-01	1.016-12	4.611+11	6.370+10	.153058	.000000	1.5539	6.270-02
2	4.642-05	1.353+03	3.056-04	6958.4	9.551-01	1.586-12	7.200+11	2.741+11	.422650	.000000	1.3822	2.094-01
3	6.813-05	1.904+03	4.060-04	7031.3	1.270+00	2.092-12	9.499+11	3.582+11	.418665	.000000	1.3674	2.231-01
4	1.000-04	2.471+03	5.435-04	7106.1	1.703+00	2.784-12	1.264+12	4.707+11	.413525	.000000	1.3547	2.397-01
5	1.468-04	3.050+03	7.307-04	7181.8	2.290+00	3.720-12	1.689+12	6.197+11	.407383	.000000	1.3458	2.597-01
6	2.154-04	3.635+03	9.830-04	7258.2	3.082+00	4.977-12	2.259+12	8.154+11	.400680	.000000	1.3414	2.839-01
7	3.162-04	4.220+03	1.320-03	7334.3	4.141+00	6.650-12	3.019+12	1.069+12	.393309	.000000	1.3416	3.131-01
8	4.642-04	4.802+03	1.767-03	7409.0	5.545+00	8.864-12	4.024+12	1.396+12	.385028	.000000	1.3469	3.476-01
9	6.813-04	5.378+03	2.357-03	7481.5	7.396+00	1.178-11	5.350+12	1.810+12	.375649	.000000	1.3580	3.880-01
10	1.000-03	5.947+03	3.130-03	7552.1	9.823+00	1.561-11	7.087+12	2.333+12	.365570	.000000	1.3748	4.355-01
11	1.468-03	6.508+03	4.137-03	7623.4	1.299+01	2.057-11	9.339+12	2.997+12	.356148	.000000	1.3915	4.920-01
12	2.154-03	7.062+03	5.445-03	7691.9	1.709+01	2.702-11	1.227+13	3.821+12	.345731	.000000	1.4111	5.569-01
13	3.162-03	7.609+03	7.139-03	7757.6	2.240+01	3.540-11	1.607+13	4.842+12	.334402	.000000	1.4358	6.313-01
14	4.642-03	8.149+03	9.329-03	7822.3	2.926+01	4.623-11	2.099+13	6.108+12	.322989	.000000	1.4655	7.182-01
15	6.813-03	8.683+03	1.215-02	7888.4	3.808+01	6.010-11	2.728+13	7.686+12	.312584	.000000	1.5003	8.221-01
16	1.000-02	9.209+03	1.574-02	7958.6	4.934+01	7.764-11	3.525+13	9.662+12	.304199	.000000	1.5387	9.484-01
17	1.468-02	9.727+03	2.031-02	8033.8	6.362+01	9.958-11	4.521+13	1.214+13	.298125	.000000	1.5775	1.100+00
18	2.154-02	1.024+04	2.605-02	8116.3	8.154+01	1.266-10	5.748+13	1.529+13	.294950	.000000	1.6240	1.291+00
19	3.162-02	1.074+04	3.317-02	8211.6	1.037+02	1.590-10	7.219+13	1.932+13	.296882	.000000	1.6789	1.541+00
20	4.642-02	1.123+04	4.185-02	8324.1	1.307+02	1.965-10	8.921+13	2.456+13	.305437	.000000	1.7417	1.874+00
21	6.813-02	1.170+04	5.219-02	8460.2	1.628+02	2.378-10	1.080+14	3.144+13	.323200	.000001	1.8151	2.338+00
22	1.000-01	1.217+04	6.420-02	8627.4	1.999+02	2.804-10	1.273+14	4.057+13	.353670	.000001	1.8996	2.993+00
23	1.468-01	1.262+04	7.779-02	8834.0	2.417+02	3.206-10	1.455+14	5.263+13	.401333	.000002	1.9940	3.926+00
24	2.154-01	1.307+04	9.289-02	9089.7	2.877+02	3.547-10	1.611+14	6.826+13	.470523	.000003	2.0936	5.211+00
25	3.162-01	1.352+04	1.096-01	9405.1	3.382+02	3.802-10	1.726+14	8.783+13	.565047	.000007	2.1913	6.877+00
26	4.642-01	1.401+04	1.285-01	9795.7	3.948+02	3.988-10	1.811+14	1.109+14	.680215	.000021	2.2733	8.704+00
27	6.813-01	1.457+04	1.515-01	10265.3	4.630+02	4.197-10	1.905+14	1.362+14	.793771	.000066	2.3163	1.003+01
28	1.000+00	1.528+04	1.825-01	10818.2	5.545+02	4.560-10	2.070+14	1.643+14	.881466	.000237	2.3190	1.043+01
29	1.468+00	1.622+04	2.282-01	11490.2	6.897+02	5.191-10	2.357+14	1.991+14	.938164	.000991	2.2932	1.003+01
30	2.154+00	1.747+04	2.995-01	12284.3	9.018+02	6.257-10	2.841+14	2.477+14	.968005	.004371	2.2526	9.228+00
31	3.162+00	1.909+04	4.146-01	13215.1	1.246+03	7.977-10	3.622+14	3.210+14	.982245	.019003	2.2066	8.351+00
32	4.642+00	2.112+04	6.013-01	14309.0	1.808+03	1.062-09	4.823+14	4.332+14	.988904	.077704	2.1639	7.576+00
33	6.813+00	2.351+04	8.995-01	15568.4	2.710+03	1.447-09	6.571+14	6.037+14	.991934	.256130	2.1306	7.062+00
34	1.000+01	2.621+04	1.358+00	16977.2	4.099+03	1.975-09	8.968+14	8.522+14	.993308	.559374	2.1157	6.851+00
35	1.468+01	2.921+04	2.053+00	18574.6	6.208+03	2.698-09	1.225+15	1.196+15	.993986	.814515	2.0980	6.631+00
36	2.154+01	3.252+04	3.103+00	20318.9	9.400+03	3.712-09	1.685+15	1.666+15	.994294	.930872	2.0839	6.474+00
37	3.162+01	3.609+04	4.659+00	22285.8	1.413+04	5.076-09	2.305+15	2.289+15	.994461	.974697	2.0836	6.503+00
38	4.642+01	3.987+04	6.901+00	24448.2	2.095+04	6.853-09	3.111+15	3.095+15	.994554	.990174	2.0932	6.702+00
39	6.813+01	4.386+04	1.007+01	26869.8	3.055+04	9.093-09	4.128+15	4.109+15	.994629	.995973	2.1104	7.026+00
40	1.000+02	4.802+04	1.445+01	29529.2	4.385+04	1.187-08	5.390+15	5.368+15	.994695	.999218	2.1058	7.519+00

TEFF = 10000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	7.699-05	6301.1	7.655-01	1.720-12	7.810+11	9.895+10	.140313	.000000	1.6346	6.312-02
2	4.642-05	7.425+02	3.027-04	7038.6	3.016+00	5.420-12	2.460+12	6.433+11	.290079	.000000	1.4303	1.981-01
3	6.813-05	9.089+02	4.072-04	7110.2	4.059+00	7.250-12	3.292+12	8.430+11	.284115	.000000	1.4212	2.170-01
4	1.000-04	1.075+03	5.466-04	7182.0	5.448+00	9.678-12	4.394+12	1.101+12	.278035	.000000	1.4164	2.400-01
5	1.468-04	1.239+03	7.307-04	7253.4	7.285+00	1.287-11	5.843+12	1.431+12	.271799	.000000	1.4165	2.677-01
6	2.154-04	1.402+03	9.720-04	7324.1	9.689+00	1.704-11	7.734+12	1.851+12	.265499	.000000	1.4215	3.007-01
7	3.162-04	1.562+03	1.286-03	7395.3	1.282+01	2.242-11	1.018+13	2.383+12	.259697	.000000	1.4265	3.403-01
8	4.642-04	1.720+03	1.692-03	7465.6	1.687+01	2.934-11	1.332+13	3.048+12	.253802	.000000	1.4332	3.868-01
9	6.813-04	1.875+03	2.215-03	7533.8	2.209+01	3.825-11	1.737+13	3.872+12	.247373	.000000	1.4436	4.408-01
10	1.000-03	2.030+03	2.889-03	7599.5	2.881+01	4.972-11	2.257+13	4.888+12	.240281	.000000	1.4582	5.027-01
11	1.468-03	2.183+03	3.757-03	7663.0	3.746+01	6.448-11	2.927+13	6.135+12	.232517	.000000	1.4768	5.737-01
12	2.154-03	2.336+03	4.874-03	7725.2	4.860+01	8.348-11	3.790+13	7.669+12	.224383	.000000	1.4999	6.557-01
13	3.162-03	2.486+03	6.306-03	7786.6	6.287+01	1.078-10	4.894+13	9.551+12	.216440	.000000	1.5272	7.508-01
14	4.642-03	2.635+03	8.135-03	7849.5	8.110+01	1.387-10	6.296+13	1.188+13	.209236	.000000	1.5591	8.642-01
15	6.813-03	2.783+03	1.046-02	7916.0	1.042+02	1.775-10	8.059+13	1.478+13	.203351	.000000	1.5939	1.001+00
16	1.000-02	2.929+03	1.340-02	7986.3	1.335+02	2.262-10	1.027+14	1.838+13	.198598	.000000	1.6294	1.164+00
17	1.468-02	3.075+03	1.710-02	8060.7	1.704+02	2.868-10	1.302+14	2.289+13	.194915	.000000	1.6678	1.358+00
18	2.154-02	3.220+03	2.175-02	8142.0	2.167+02	3.616-10	1.642+14	2.858+13	.192932	.000000	1.7139	1.601+00
19	3.162-02	3.361+03	2.748-02	8234.5	2.736+02	4.512-10	2.048+14	3.587+13	.194175	.000000	1.7687	1.917+00
20	4.642-02	3.499+03	3.442-02	8344.0	3.426+02	5.550-10	2.520+14	4.542+13	.199898	.000000	1.8337	2.346+00
21	6.813-02	3.633+03	4.264-02	8476.8	4.241+02	6.701-10	3.042+14	5.816+13	.211872	.000000	1.9106	2.948+00
22	1.000-01	3.763+03	5.208-02	8640.2	5.178+02	7.898-10	3.586+14	7.539+13	.232925	.000001	2.0010	3.823+00
23	1.468-01	3.887+03	6.263-02	8842.5	6.220+02	9.043-10	4.106+14	9.886+13	.266901	.000001	2.1048	5.117+00
24	2.154-01	4.007+03	7.406-02	9093.5	7.346+02	1.001-09	4.544+14	1.307+14	.319079	.000002	2.2207	7.035+00
25	3.162-01	4.124+03	8.609-02	9404.9	8.526+02	1.065-09	4.835+14	1.732+14	.397474	.000004	2.3449	9.839+00
26	4.642-01	4.240+03	9.872-02	9785.5	9.762+02	1.092-09	4.956+14	2.264+14	.506395	.000011	2.4644	1.355+01
27	6.813-01	4.368+03	1.127-01	10248.2	1.112+03	1.097-09	4.980+14	2.875+14	.640874	.000032	2.5509	1.726+01
28	1.000+00	4.524+03	1.298-01	10802.9	1.276+03	1.111-09	5.042+14	3.518+14	.775152	.000112	2.5907	1.954+01
29	1.468+00	4.733+03	1.537-01	11479.0	1.505+03	1.167-09	5.298+14	4.196+14	.879778	.000465	2.5833	1.955+01
30	2.154+00	5.031+03	1.903-01	12284.9	1.858+03	1.307-09	5.932+14	5.026+14	.940634	.002160	2.5410	1.784+01
31	3.162+00	5.453+03	2.509-01	13230.6	2.444+03	1.573-09	7.140+14	6.240+14	.969674	.010152	2.4820	1.562+01
32	4.642+00	6.021+03	3.524-01	14328.0	3.431+03	2.022-09	9.179+14	8.164+14	.982688	.044740	2.4247	1.376+01
33	6.813+00	6.728+03	5.188-01	15581.7	5.053+03	2.712-09	1.231+15	1.116+15	.988454	.162419	2.3810	1.256+01
34	1.000+01	7.548+03	7.792-01	16987.5	7.596+03	3.688-09	1.674+15	1.564+15	.991072	.410802	2.3572	1.201+01
35	1.468+01	8.462+03	1.174+00	18558.6	1.145+04	5.012-09	2.276+15	2.193+15	.992335	.700387	2.3448	1.175+01
36	2.154+01	9.465+03	1.763+00	20315.7	1.721+04	6.818-09	3.095+15	3.041+15	.992984	.879240	2.3369	1.160+01
37	3.162+01	1.055+04	2.630+00	22272.6	2.570+04	9.250-09	4.199+15	4.158+15	.993330	.954211	2.3369	1.166+01
38	4.642+01	1.172+04	3.884+00	24447.6	3.797+04	1.243-08	5.643+15	5.604+15	.993530	.982184	2.3447	1.195+01
39	6.813+01	1.296+04	5.660+00	26868.8	5.532+04	1.648-08	7.481+15	7.438+15	.993667	.992655	2.3607	1.252+01
40	1.000+02	1.425+04	8.126+00	29548.1	7.942+04	2.152-08	9.772+15	9.721+15	.993776	.997199	2.3548	1.339+01

TEFF = 10000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.991-04	6281.1	6.285+00	1.532-11	6.955+12	2.967+11	.046994	.000000	1.6499	3.502-02
2	4.642-05	9.035+01	3.624-04	7121.1	1.145+01	2.213-11	1.005+13	1.604+12	.176173	.000000	1.4970	2.037-01
3	6.813-05	1.332+02	4.645-04	7183.1	1.467+01	2.817-11	1.279+13	2.005+12	.173835	.000000	1.4894	2.288-01
4	1.000-04	1.742+02	5.948-04	7248.7	1.878+01	3.580-11	1.625+13	2.520+12	.171877	.000000	1.4863	2.600-01
5	1.468-04	2.158+02	7.629-04	7313.5	2.409+01	4.562-11	2.071+13	3.159+12	.169034	.000000	1.4858	2.958-01
6	2.154-04	2.579+02	9.795-04	7378.0	3.094+01	5.822-11	2.643+13	3.954+12	.165797	.000000	1.4891	3.380-01
7	3.162-04	3.001+02	1.257-03	7441.4	3.972+01	7.430-11	3.373+13	4.937+12	.162175	.000000	1.4959	3.872-01
8	4.642-04	3.423+02	1.613-03	7503.8	5.094+01	9.481-11	4.304+13	6.146+12	.158230	.000000	1.5064	4.445-01
9	6.813-04	3.847+02	2.067-03	7565.2	6.529+01	1.209-10	5.490+13	7.629+12	.153974	.000000	1.5208	5.109-01
10	1.000-03	4.270+02	2.646-03	7625.6	8.360+01	1.541-10	6.998+13	9.441+12	.149478	.000000	1.5391	5.878-01
11	1.468-03	4.694+02	3.385-03	7686.8	1.069+02	1.963-10	8.910+13	1.167+13	.145129	.000000	1.5606	6.779-01
12	2.154-03	5.117+02	4.323-03	7749.5	1.365+02	2.494-10	1.132+14	1.443+13	.141134	.000000	1.5837	7.844-01
13	3.162-03	5.540+02	5.513-03	7812.3	1.742+02	3.165-10	1.437+14	1.779+13	.137165	.000000	1.6095	9.079-01
14	4.642-03	5.962+02	7.021-03	7875.9	2.218+02	4.010-10	1.821+14	2.191+13	.133328	.000000	1.6388	1.053+00
15	6.813-03	6.384+02	8.927-03	7940.9	2.820+02	5.071-10	2.302+14	2.699+13	.129841	.000000	1.6716	1.223+00
16	1.000-02	6.806+02	1.133-02	8009.3	3.579+02	6.397-10	2.904+14	3.327+13	.126894	.000000	1.7053	1.424+00
17	1.468-02	7.227+02	1.436-02	8081.2	4.535+02	8.048-10	3.654+14	4.108+13	.124473	.000000	1.7444	1.667+00
18	2.154-02	7.646+02	1.814-02	8160.0	5.727+02	1.008-09	4.575+14	5.092+13	.123246	.000000	1.7909	1.968+00
19	3.162-02	8.060+02	2.280-02	8250.1	7.198+02	1.252-09	5.684+14	6.359+13	.123885	.000000	1.8462	2.360+00
20	4.642-02	8.466+02	2.845-02	8356.8	8.981+02	1.538-09	6.982+14	8.024+13	.127308	.000000	1.9121	2.890+00
21	6.813-02	8.861+02	3.513-02	8486.2	1.109+03	1.859-09	8.439+14	1.026+14	.134678	.000000	1.9897	3.629+00
22	1.000-01	9.240+02	4.282-02	8645.8	1.351+03	2.200-09	9.986+14	1.334+14	.148005	.000000	2.0814	4.709+00
23	1.468-01	9.601+02	5.138-02	8844.0	1.621+03	2.537-09	1.152+15	1.761+14	.169453	.000000	2.1881	6.315+00
24	2.154-01	9.943+02	6.057-02	9089.5	1.910+03	2.833-09	1.286+15	2.362+14	.203622	.000001	2.3114	8.784+00
25	3.162-01	1.027+03	7.008-02	9397.3	2.208+03	3.042-09	1.381+15	3.217+14	.258403	.000002	2.4518	1.269+01
26	4.642-01	1.057+03	7.963-02	9778.9	2.507+03	3.126-09	1.419+15	4.385+14	.342790	.000005	2.5992	1.857+01
27	6.813-01	1.089+03	8.934-02	10240.0	2.810+03	3.090-09	1.403+15	5.854+14	.463024	.000016	2.7310	2.615+01
28	1.000+00	1.124+03	9.995-02	10799.5	3.139+03	2.985-09	1.355+15	7.519+14	.616194	.000049	2.8272	3.366+01
29	1.468+00	1.168+03	1.129-01	11476.4	3.539+03	2.906-09	1.319+15	9.165+14	.771486	.000207	2.8673	3.759+01
30	2.154+00	1.231+03	1.316-01	12282.4	4.115+03	2.977-09	1.351+15	1.076+15	.884261	.001001	2.8448	3.593+01
31	3.162+00	1.328+03	1.617-01	13227.4	5.048+03	3.291-09	1.494+15	1.271+15	.944286	.004971	2.7780	3.097+01
32	4.642+00	1.472+03	2.139-01	14322.4	6.672+03	3.962-09	1.799+15	1.577+15	.971083	.023087	2.7033	2.616+01
33	6.813+00	1.671+03	3.034-01	15584.0	9.459+03	5.115-09	2.322+15	2.076+15	.982613	.092790	2.6414	2.288+01
34	1.000+01	1.914+03	4.477-01	16983.6	1.397+04	6.843-09	3.107+15	2.849+15	.987582	.277324	2.6100	2.152+01
35	1.468+01	2.191+03	6.680-01	18562.8	2.084+04	9.198-09	4.176+15	3.958+15	.989992	.565091	2.5972	2.104+01
36	2.154+01	2.497+03	9.957-01	20310.7	3.108+04	1.238-08	5.620+15	5.467+15	.991205	.802367	2.5920	2.090+01
37	3.162+01	2.831+03	1.477+00	22281.0	4.612+04	1.664-08	7.556+15	7.445+15	.991880	.921719	2.5912	2.098+01
38	4.642+01	3.192+03	2.174+00	24438.0	6.789+04	2.227-08	1.011+16	1.001+16	.992251	.968705	2.5994	2.149+01
39	6.813+01	3.577+03	3.165+00	26878.3	9.879+04	2.943-08	1.336+16	1.326+16	.992510	.986776	2.6137	2.239+01
40	1.000+02	3.983+03	4.544+00	29550.6	1.419+05	3.841-08	1.744+16	1.732+16	.992692	.994465	2.6094	2.388+01

TEFF = 11000

LOG G = 2.0

	TAU(RGSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RGSS)
1	6.000+00	0.000+00	1.100-04	6773.3	6.507-03	8.177-15	3.712+09	3.242+09	.969951	.000001	1.4803	2.878-01
2	4.642-05	5.055+04	1.604-04	7133.6	1.032-02	1.223-14	5.550+09	4.930+09	.986542	.000005	1.2778	2.918-01
3	6.813-05	9.055+04	2.343-04	7191.9	1.628-02	1.916-14	8.700+09	7.698+09	.982832	.000005	1.2930	2.941-01
4	1.000-04	1.452+05	3.421-04	7274.3	2.493-02	2.904-14	1.318+10	1.164+10	.980163	.000005	1.2994	2.973-01
5	1.468-04	1.692+05	4.983-04	7369.1	3.742-02	4.306-14	1.955+10	1.722+10	.978279	.000005	1.3030	3.017-01
6	2.154-04	2.324+05	7.238-04	7475.7	5.542-02	6.289-14	2.855+10	2.512+10	.977187	.000007	1.3067	3.073-01
7	3.162-04	2.752+05	1.048-03	7591.6	8.119-02	9.075-14	4.120+10	3.623+10	.976733	.000008	1.3140	3.146-01
8	4.642-04	3.178+05	1.511-03	7716.3	1.179-01	1.297-13	5.889+10	5.180+10	.976835	.000011	1.3139	3.233-01
9	6.813-04	3.604+05	2.172-03	7846.0	1.706-01	1.844-13	8.373+10	7.365+10	.977077	.000015	1.3036	3.335-01
10	1.000-03	4.030+05	3.110-03	7976.9	2.459-01	2.615-13	1.187+11	1.045+11	.977190	.000019	1.2848	3.456-01
11	1.468-03	4.455+05	4.438-03	8103.4	3.544-01	3.711-13	1.685+11	1.482+11	.976734	.000024	1.2431	3.590-01
12	2.154-03	4.876+05	6.304-03	8216.0	5.094-01	5.266-13	2.391+11	2.099+11	.975270	.000028	1.2219	3.765-01
13	3.162-03	5.290+05	8.905-03	8321.5	7.267-01	7.425-13	3.371+11	2.954+11	.973251	.000032	1.2139	3.983-01
14	4.642-03	5.698+05	1.249-02	8420.6	1.027+00	1.038-12	4.713+11	4.120+11	.970693	.000035	1.2169	4.253-01
15	6.813-03	6.099+05	1.741-02	8513.9	1.437+00	1.439-12	6.533+11	5.692+11	.967642	.000037	1.2233	4.576-01
16	1.000-02	6.493+05	2.408-02	8597.3	1.990+00	1.977-12	8.977+11	7.789+11	.963672	.000038	1.2437	4.974-01
17	1.468-02	6.881+05	3.304-02	8676.9	2.723+00	2.687-12	1.220+12	1.054+12	.959201	.000039	1.2748	5.456-01
18	2.154-02	7.264+05	4.499-02	8758.3	3.683+00	3.608-12	1.638+12	1.408+12	.954809	.000040	1.3139	6.027-01
19	3.162-02	7.644+05	6.082-02	8850.1	4.922+00	4.779-12	2.170+12	1.859+12	.951561	.000043	1.3571	6.690-01
20	4.642-02	8.025+05	8.172-02	8960.5	6.510+00	6.246-12	2.836+12	2.426+12	.950305	.000050	1.4021	7.447-01
21	6.813-02	8.413+05	1.093-01	9100.1	8.535+00	8.062-12	3.660+12	3.132+12	.950481	.000065	1.4448	8.268-01
22	1.000-01	8.813+05	1.458-01	9278.3	1.112+01	1.028-11	4.666+12	4.013+12	.955296	.000095	1.4833	9.154-01
23	1.468-01	9.232+05	1.944-01	9503.5	1.444+01	1.299-11	5.896+12	5.108+12	.962348	.000158	1.5165	1.006+00
24	2.154-01	9.680+05	2.598-01	9792.5	1.876+01	1.631-11	7.402+12	6.473+12	.971182	.000316	1.5414	1.089+00
25	3.162-01	1.017+06	3.493-01	10143.8	2.454+01	2.051-11	9.312+12	8.210+12	.979252	.000714	1.5556	1.157+00
26	4.642-01	1.071+06	4.743-01	10569.5	3.252+01	2.601-11	1.181+13	1.049+13	.985708	.001896	1.5588	1.204+00
27	6.813-01	1.131+06	6.526-01	11086.9	4.392+01	3.340-11	1.517+13	1.353+13	.990394	.005555	1.5560	1.226+00
28	1.000+00	1.199+06	9.127-01	11717.7	6.066+01	4.356-11	1.977+13	1.773+13	.993474	.018180	1.5471	1.223+00
29	1.468+00	1.276+06	1.299+00	12481.1	8.587+01	5.771-11	2.620+13	2.364+13	.995295	.063381	1.5331	1.199+00
30	2.154+00	1.362+06	1.876+00	13381.3	1.242+02	7.720-11	3.505+13	3.215+13	.996257	.204685	1.5239	1.180+00
31	3.162+00	1.458+06	2.736+00	14450.0	1.816+02	1.030-10	4.675+13	4.431+13	.996746	.502035	1.5165	1.165+00
32	4.642+00	1.565+06	4.021+00	15668.1	2.685+02	1.383-10	6.279+13	6.135+13	.996965	.791870	1.5033	1.139+00
33	6.813+00	1.685+06	5.959+00	17057.4	4.018+02	1.887-10	8.569+13	8.494+13	.997058	.932471	1.4863	1.102+00
34	1.000+01	1.817+06	8.892+00	18617.4	6.070+02	2.607-10	1.183+14	1.179+14	.997084	.978739	1.4714	1.074+00
35	1.468+01	1.959+06	1.327+01	20359.1	9.172+02	3.600-10	1.634+14	1.630+14	.997081	.992940	1.4644	1.064+00
36	2.154+01	2.112+06	1.971+01	22308.4	1.373+03	4.920-10	2.234+14	2.230+14	.997074	.997508	1.4654	1.072+00
37	3.162+01	2.273+06	2.899+01	24468.9	2.028+03	6.620-10	3.006+14	3.000+14	.997072	.999229	1.4750	1.102+00
38	4.642+01	2.445+06	4.215+01	26877.0	2.944+03	8.748-10	3.971+14	3.965+14	.997082	1.001282	1.4886	1.148+00
39	6.813+01	2.629+06	6.050+01	29540.9	4.200+03	1.135-09	5.151+14	5.148+14	.997105	1.012127	1.5091	1.221+00
40	1.000+02	2.821+06	8.544+01	32480.4	5.885+03	1.441-09	6.543+14	6.582+14	.997174	1.072251	1.5082	1.338+00

TEFF = 11000

LOG G = 2.5

TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)	
1	0.000+00	0.000+00	1.060-04	6778.5	2.750-02	3.589-14	1.630+10	1.308+10	.891033	.000000	1.6126	2.785-01
2	4.642-05	1.269+04	1.601-04	7225.6	4.285-02	5.068-14	2.301+10	1.991+10	.961366	.000002	1.4112	3.009-01
3	6.813-05	2.448+04	2.317-04	7298.4	6.358-02	7.468-14	3.390+10	2.917+10	.955415	.000002	1.4297	3.064-01
4	1.000-04	3.586+04	3.343-04	7394.0	9.324-02	1.083-13	4.915+10	4.214+10	.952341	.000003	1.4426	3.143-01
5	1.468-04	4.714+04	4.809-04	7500.5	1.356-01	1.553-13	7.050+10	6.034+10	.950743	.000003	1.4344	3.238-01
6	2.154-04	5.834+04	6.891-04	7610.1	1.958-01	2.212-13	1.004+11	8.584+10	.949444	.000004	1.4231	3.355-01
7	3.162-04	6.948+04	9.830-04	7721.7	2.809-01	3.130-13	1.421+11	1.213+11	.948231	.000005	1.4178	3.502-01
8	4.642-04	8.054+04	1.395-03	7836.3	4.004-01	4.397-13	1.996+11	1.702+11	.947322	.000006	1.4179	3.682-01
9	6.813-04	9.154+04	1.967-03	7955.0	5.664-01	6.129-13	2.782+11	2.372+11	.946868	.000008	1.4173	3.899-01
10	1.000-03	1.025+05	2.760-03	8075.0	7.973-01	8.504-13	3.861+11	3.289+11	.946133	.000010	1.3805	4.138-01
11	1.468-03	1.134+05	3.851-03	8182.3	1.117+00	1.177-12	5.345+11	4.541+11	.943614	.000011	1.3584	4.428-01
12	2.154-03	1.241+05	5.341-03	8280.9	1.555+00	1.623-12	7.367+11	6.233+11	.939756	.000013	1.3440	4.780-01
13	3.162-03	1.347+05	7.358-03	8367.8	2.148+00	2.224-12	1.010+12	8.493+11	.934043	.000014	1.3480	5.212-01
14	4.642-03	1.451+05	1.006-02	8445.8	2.941+00	3.028-12	1.375+12	1.147+12	.926729	.000014	1.3671	5.738-01
15	6.813-03	1.552+05	1.364-02	8517.3	3.987+00	4.088-12	1.856+12	1.535+12	.918020	.000014	1.3983	6.374-01
16	1.000-02	1.652+05	1.835-02	8586.6	5.354+00	5.472-12	2.484+12	2.032+12	.908528	.000014	1.4388	7.135-01
17	1.468-02	1.749+05	2.451-02	8658.8	7.123+00	7.252-12	3.293+12	2.666+12	.899321	.000014	1.4857	8.039-01
18	2.154-02	1.845+05	3.252-02	8739.7	9.394+00	9.510-12	4.318+12	3.467+12	.891857	.000015	1.5366	9.108-01
19	3.162-02	1.941+05	4.286-02	8835.9	1.228+01	1.232-11	5.595+12	4.474+12	.888299	.000017	1.5861	1.035+00
20	4.642-02	2.036+05	5.620-02	8952.8	1.595+01	1.579-11	7.169+12	5.737+12	.888831	.000021	1.6361	1.181+00
21	6.813-02	2.132+05	7.338-02	9100.6	2.060+01	2.002-11	9.090+12	7.308+12	.892930	.000028	1.6843	1.344+00
22	1.000-01	2.231+05	9.554-02	9287.8	2.648+01	2.506-11	1.138+13	9.273+12	.905239	.000042	1.7294	1.528+00
23	1.468-01	2.334+05	1.243-01	9523.2	3.394+01	3.107-11	1.411+13	1.171+13	.922201	.000074	1.7686	1.721+00
24	2.154-01	2.443+05	1.620-01	9822.4	4.358+01	3.831-11	1.739+13	1.474+13	.941681	.000153	1.7986	1.904+00
25	3.162-01	2.562+05	2.127-01	10180.1	5.636+01	4.741-11	2.153+13	1.858+13	.958720	.000352	1.8147	2.056+00
26	4.642-01	2.693+05	2.826-01	10606.0	7.387+01	5.927-11	2.691+13	2.355+13	.972132	.000930	1.8197	2.161+00
27	6.813-01	2.842+05	3.819-01	11131.6	9.878+01	7.512-11	3.410+13	3.017+13	.982136	.002786	1.8147	2.202+00
28	1.000+00	3.011+05	5.269-01	11761.6	1.352+02	9.702-11	4.405+13	3.924+13	.988561	.009113	1.8035	2.192+00
29	1.468+00	3.205+05	7.431-01	12524.8	1.901+02	1.277-10	5.797+13	5.199+13	.992403	.032382	1.7866	2.134+00
30	2.154+00	3.426+05	1.071+00	13425.3	2.741+02	1.709-10	7.758+13	7.033+13	.994468	.112320	1.7687	2.061+00
31	3.162+00	3.676+05	1.569+00	14488.6	4.028+02	2.300-10	1.044+14	9.702+13	.995526	.329100	1.7528	1.994+00
32	4.642+00	3.956+05	2.322+00	15707.1	5.992+02	3.104-10	1.409+14	1.355+14	.996024	.643410	1.7354	1.938+00
33	6.813+00	4.270+05	3.462+00	17089.1	8.992+02	4.233-10	1.922+14	1.890+14	.996252	.865152	1.7178	1.873+00
34	1.000+01	4.617+05	5.192+00	18650.4	1.358+03	5.831-10	2.647+14	2.629+14	.996349	.954999	1.7007	1.819+00
35	1.468+01	4.994+05	7.784+00	20379.5	2.049+03	8.043-10	3.651+14	3.636+14	.996379	.984609	1.6921	1.796+00
36	2.154+01	5.399+05	1.161+01	22326.3	3.072+03	1.100-09	4.993+14	4.978+14	.996390	.994485	1.6909	1.799+00
37	3.162+01	5.830+05	1.715+01	24482.8	4.550+03	1.485-09	6.742+14	6.723+14	.996396	.997954	1.6984	1.843+00
38	4.642+01	6.288+05	2.502+01	26884.0	6.638+03	1.973-09	8.957+14	8.934+14	.996409	.999838	1.7121	1.920+00
39	6.813+01	6.772+05	3.598+01	29549.4	9.527+03	2.575-09	1.169+15	1.167+15	.996434	1.005078	1.7328	2.043+00
40	1.000+02	7.277+05	5.089+01	32481.9	1.343+04	3.298-09	1.497+15	1.499+15	.996485	1.032832	1.7307	2.239+00



TEFF = 11000

LOG G = 3.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	1.002-04	6816.4	9.256-02	1.289-13	5.851+10	3.978+10	.754970	.000000	1.7412	2.585-01
2	4.642-05	3.896+03	1.596-04	7351.5	1.494-01	1.774-13	8.053+10	6.653+10	.918071	.000001	1.5523	3.196-01
3	6.813-05	7.178+03	2.266-04	7435.4	2.141-01	2.521-13	1.144+11	9.387+10	.911149	.000001	1.5480	3.306-01
4	1.000-04	1.032+04	3.209-04	7531.5	3.050-01	3.553-13	1.613+11	1.317+11	.907052	.000002	1.5436	3.452-01
5	1.468-04	1.345+04	4.528-04	7631.8	4.323-01	4.978-13	2.260+11	1.839+11	.903740	.000002	1.5418	3.637-01
6	2.154-04	1.656+04	6.357-04	7735.6	6.088-01	6.927-13	3.145+11	2.551+11	.901044	.000003	1.5447	3.865-01
7	3.162-04	1.954+04	8.872-04	7842.6	8.514-01	9.564-13	4.342+11	3.514+11	.899032	.000003	1.5528	4.144-01
8	4.642-04	2.270+04	1.230-03	7953.8	1.182+00	1.310-12	5.948+11	4.808+11	.897799	.000004	1.5504	4.474-01
9	6.813-04	2.573+04	1.696-03	8064.1	1.632+00	1.787-12	8.111+11	6.543+11	.895984	.000005	1.5041	4.838-01
10	1.000-03	2.875+04	2.325-03	8159.4	2.242+00	2.433-12	1.104+12	8.854+11	.890435	.000005	1.4840	5.280-01
11	1.468-03	3.172+04	3.168-03	8245.5	3.059+00	3.298-12	1.497+12	1.190+12	.882431	.000006	1.4821	5.814-01
12	2.154-03	3.463+04	4.286-03	8323.1	4.143+00	4.448-12	2.019+12	1.586+12	.872072	.000006	1.4954	6.456-01
13	3.162-03	3.748+04	5.758-03	8393.8	5.568+00	5.965-12	2.708+12	2.095+12	.859591	.000006	1.5211	7.223-01
14	4.642-03	4.027+04	7.683-03	8459.5	7.426+00	7.951-12	3.610+12	2.747+12	.845283	.000006	1.5570	8.136-01
15	6.813-03	4.299+04	1.018-02	8523.3	9.830+00	1.053-11	4.780+12	3.573+12	.830028	.000006	1.6004	9.219-01
16	1.000-02	4.566+04	1.341-02	8590.2	1.292+01	1.384-11	6.283+12	4.614+12	.815490	.000006	1.6449	1.049+00
17	1.468-02	4.828+04	1.757-02	8660.9	1.689+01	1.806-11	8.200+12	5.921+12	.801955	.000006	1.6940	1.201+00
18	2.154-02	5.087+04	2.288-02	8741.6	2.192+01	2.335-11	1.060+13	7.560+12	.791895	.000007	1.7466	1.380+00
19	3.162-02	5.342+04	2.965-02	8839.1	2.828+01	2.986-11	1.356+13	9.616+12	.787798	.000008	1.8011	1.599+00
20	4.642-02	5.596+04	3.819-02	8960.3	3.625+01	3.767-11	1.710+13	1.220+13	.791707	.000010	1.8565	1.861+00
21	6.813-02	5.851+04	4.896-02	9113.1	4.619+01	4.690-11	2.129+13	1.541+13	.803713	.000014	1.9103	2.169+00
22	1.000-01	6.111+04	6.250-02	9305.2	5.856+01	5.754-11	2.612+13	1.945+13	.826845	.000022	1.9627	2.532+00
23	1.468-01	6.381+04	7.959-02	9544.5	7.398+01	6.978-11	3.168+13	2.446+13	.857390	.000039	2.0098	2.929+00
24	2.154-01	6.666+04	1.015-01	9848.5	9.354+01	8.396-11	3.812+13	3.065+13	.892877	.000082	2.0477	3.321+00
25	3.162-01	6.978+04	1.303-01	10207.9	1.191+02	1.016-10	4.612+13	3.837+13	.923968	.000188	2.0669	3.637+00
26	4.642-01	7.327+04	1.697-01	10635.8	1.538+02	1.244-10	5.649+13	4.827+13	.948971	.000482	2.0732	3.853+00
27	6.813-01	7.726+04	2.251-01	11155.8	2.027+02	1.550-10	7.035+13	6.130+13	.967678	.001454	2.0706	3.953+00
28	1.000+00	8.187+04	3.060-01	11788.6	2.741+02	1.971-10	8.947+13	7.900+13	.980179	.004824	2.0584	3.927+00
29	1.468+00	8.724+04	4.270-01	12548.2	3.816+02	2.567-10	1.165+14	1.038+14	.987624	.017235	2.0402	3.801+00
30	2.154+00	9.347+04	6.123-01	13451.4	5.472+02	3.418-10	1.552+14	1.395+14	.991701	.062640	2.0152	3.613+00
31	3.162+00	1.007+05	8.994-01	14513.2	8.055+02	4.623-10	2.099+14	1.921+14	.993783	.204588	1.9898	3.427+00
32	4.642+00	1.088+05	1.340+00	15733.9	1.203+03	6.279-10	2.850+14	2.692+14	.994790	.486907	1.9700	3.307+00
33	6.813+00	1.178+05	2.004+00	17116.9	1.808+03	8.539-10	3.876+14	3.772+14	.995274	.768671	1.9550	3.235+00
34	1.000+01	1.278+05	3.004+00	18660.9	2.718+03	1.170-09	5.310+14	5.246+14	.995499	.915039	1.9388	3.147+00
35	1.468+01	1.387+05	4.510+00	20397.1	4.097+03	1.608-09	7.299+14	7.252+14	.995603	.970274	1.9274	3.077+00
36	2.154+01	1.506+05	6.745+00	22332.9	6.144+03	2.200-09	9.987+14	9.943+14	.995648	.989140	1.9244	3.077+00
37	3.162+01	1.632+05	9.989+00	24490.4	9.114+03	2.975-09	1.350+15	1.346+15	.995673	.995825	1.9310	3.146+00
38	4.642+01	1.765+05	1.458+01	26885.6	1.331+04	3.955-09	1.795+15	1.790+15	.995700	.998554	1.9473	3.303+00
39	6.813+01	1.905+05	2.093+01	29546.3	1.908+04	5.159-09	2.342+15	2.335+15	.995738	1.001915	1.9707	3.536+00
40	1.000+02	2.051+05	2.955+01	32480.5	2.689+04	6.610-09	3.001+15	2.997+15	.995787	1.016421	1.9663	3.857+00

TEFF = 11000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.714-05	6879.8	2.982-01	4.528-13	2.056+11	1.083+11	.584915	.000000	1.8326	2.317-01
2	4.642-05	1.154+03	1.568-04	7476.8	4.834-01	5.857-13	2.659+11	2.019+11	.843947	.000001	1.6700	3.527-01
3	6.813-05	2.070+03	2.169-04	7560.6	6.708-01	8.071-13	3.664+11	2.757+11	.835662	.000001	1.6728	3.733-01
4	1.000-04	2.940+03	2.992-04	7657.2	9.273-01	1.105-12	5.015+11	3.752+11	.831029	.000001	1.6765	4.001-01
5	1.468-04	3.810+03	4.115-04	7755.7	1.277+00	1.505-12	6.833+11	5.089+11	.827205	.000001	1.6716	4.325-01
6	2.154-04	4.674+03	5.633-04	7853.8	1.750+00	2.041-12	9.267+11	6.867+11	.822988	.000002	1.6643	4.714-01
7	3.162-04	5.531+03	7.667-04	7950.9	2.384+00	2.754-12	1.250+12	9.213+11	.818334	.000002	1.6608	5.181-01
8	4.642-04	6.379+03	1.038-03	8047.1	3.230+00	3.696-12	1.678+12	1.229+12	.813185	.000002	1.6325	5.717-01
9	6.813-04	7.218+03	1.397-03	8133.1	4.351+00	4.951-12	2.248+12	1.628+12	.804073	.000003	1.6235	6.350-01
10	1.000-03	8.044+03	1.871-03	8211.8	5.829+00	6.610-12	3.001+12	2.141+12	.792119	.000003	1.6293	7.099-01
11	1.468-03	8.855+03	2.491-03	8284.3	7.761+00	8.792-12	3.992+12	2.794+12	.777559	.000003	1.6472	7.984-01
12	2.154-03	9.650+03	3.297-03	8351.2	1.028+01	1.165-11	5.289+12	3.623+12	.760648	.000003	1.6747	9.022-01
13	3.162-03	1.043+04	4.343-03	8416.4	1.353+01	1.537-11	6.978+12	4.667+12	.742801	.000003	1.7042	1.023+00
14	4.642-03	1.119+04	5.694-03	8476.5	1.773+01	2.022-11	9.180+12	5.973+12	.722617	.000003	1.7411	1.164+00
15	6.813-03	1.195+04	7.435-03	8535.9	2.314+01	2.650-11	1.203+13	7.603+12	.701781	.000003	1.7840	1.329+00
16	1.000-02	1.268+04	9.667-03	8597.8	3.005+01	3.455-11	1.569+13	9.634+12	.682024	.000003	1.8313	1.524+00
17	1.468-02	1.340+04	1.252-02	8667.3	3.885+01	4.472-11	2.030+13	1.217+13	.665688	.000003	1.8821	1.758+00
18	2.154-02	1.412+04	1.613-02	8749.3	4.998+01	5.734-11	2.603+13	1.535+13	.655053	.000003	1.9360	2.044+00
19	3.162-02	1.482+04	2.067-02	8849.2	6.391+01	7.259-11	3.295+13	1.936+13	.652546	.000004	1.9928	2.400+00
20	4.642-02	1.551+04	2.631-02	8973.1	8.115+01	9.050-11	4.109+13	2.444+13	.660307	.000005	2.0525	2.845+00
21	6.813-02	1.620+04	3.327-02	9128.0	1.023+02	1.110-10	5.038+13	3.082+13	.679281	.000007	2.1132	3.394+00
22	1.000-01	1.690+04	4.181-02	9320.1	1.281+02	1.337-10	6.070+13	3.889+13	.711626	.000011	2.1737	4.067+00
23	1.468-01	1.762+04	5.229-02	9558.7	1.596+02	1.585-10	7.197+13	4.899+13	.756013	.000020	2.2315	4.850+00
24	2.154-01	1.838+04	6.529-02	9854.4	1.984+02	1.858-10	8.437+13	6.143+13	.808657	.000042	2.2821	5.684+00
25	3.162-01	1.920+04	8.189-02	10214.5	2.476+02	2.177-10	9.885+13	7.670+13	.861686	.000097	2.3136	6.400+00
26	4.642-01	2.013+04	1.040-01	10639.8	3.129+02	2.584-10	1.173+14	9.573+13	.906290	.000248	2.3288	6.905+00
27	6.813-01	2.122+04	1.349-01	11169.4	4.039+02	3.122-10	1.417+14	1.202+14	.942014	.000748	2.3281	7.117+00
28	1.000+00	2.250+04	1.797-01	11800.9	5.363+02	3.879-10	1.761+14	1.531+14	.965373	.002565	2.3150	7.075+00
29	1.468+00	2.403+04	2.470-01	12554.0	7.353+02	4.964-10	2.254+14	1.989+14	.979325	.009198	2.2962	6.824+00
30	2.154+00	2.586+04	3.513-01	13481.3	1.045+03	6.537-10	2.968+14	2.649+14	.987283	.035733	2.2604	6.343+00
31	3.162+00	2.799+04	5.144-01	14508.1	1.532+03	8.849-10	4.018+14	3.633+14	.991002	.118746	2.2361	6.037+00
32	4.642+00	3.044+04	7.671-01	15767.4	2.289+03	1.201-09	5.453+14	5.064+14	.993064	.344961	2.2084	5.704+00
33	6.813+00	3.315+04	1.149+00	17104.1	3.437+03	1.637-09	7.432+14	7.123+14	.993945	.634734	2.1981	5.659+00
34	1.000+01	3.614+04	1.723+00	18690.5	5.162+03	2.224-09	1.010+15	9.907+14	.994453	.854620	2.1797	5.457+00
35	1.468+01	3.945+04	2.587+00	20377.2	7.766+03	3.056-09	1.387+15	1.373+15	.994659	.944610	2.1693	5.379+00
36	2.154+01	4.303+04	3.870+00	22355.6	1.164+04	4.164-09	1.891+15	1.879+15	.994794	.980006	2.1658	5.349+00
37	3.162+01	4.683+04	5.718+00	24467.2	1.721+04	5.624-09	2.553+15	2.541+15	.994850	.992005	2.1763	5.554+00
38	4.642+01	5.084+04	8.323+00	26899.0	2.504+04	7.443-09	3.379+15	3.364+15	.994917	.996806	2.1924	5.806+00
39	6.813+01	5.507+04	1.193+01	29529.8	3.588+04	9.712-09	4.409+15	4.392+15	.994970	.999838	2.2145	6.226+00
40	1.000+02	5.947+04	1.684+01	32481.4	5.059+04	1.244-08	5.650+15	5.633+15	.995040	1.008180	2.2090	6.757+00

TEFF = 11000

LOG G = 4.0

	TAU(ROSS)	X (CM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.029-05	6942.4	7.943-01	1.304-12	5.919+11	2.367+11	.443875	.000000	1.9263	2.110-01
2	4.642-05	4.255+02	1.459-04	7592.7	1.446+00	1.829-12	8.304+11	5.482+11	.733953	.000001	1.7915	4.052-01
3	6.813-05	6.854+02	1.977-04	7677.4	1.961+00	2.463-12	1.118+12	7.313+11	.726411	.000001	1.7830	4.404-01
4	1.000-04	9.301+02	2.665-04	7766.8	2.645+00	3.295-12	1.496+12	9.706+11	.720492	.000001	1.7775	4.845-01
5	1.468-04	1.170+03	3.579-04	7855.1	3.553+00	4.393-12	1.994+12	1.282+12	.713788	.000001	1.7770	5.376-01
6	2.154-04	1.457+03	4.784-04	7942.8	4.751+00	5.831-12	2.647+12	1.684+12	.706679	.000001	1.7760	6.007-01
7	3.162-04	1.852+03	6.362-04	8028.6	6.320+00	7.709-12	3.500+12	2.201+12	.698419	.000001	1.7660	6.740-01
8	4.642-04	1.875+03	8.424-04	8108.7	8.370+00	1.017-11	4.618+12	2.857+12	.687213	.000001	1.7646	7.589-01
9	6.813-04	2.194+03	1.111-03	8183.7	1.104+01	1.339-11	6.080+12	3.687+12	.673376	.000001	1.7723	8.574-01
10	1.000-03	2.331+03	1.459-03	8254.8	1.450+01	1.759-11	7.988+12	4.731+12	.657702	.000001	1.7842	9.712-01
11	1.468-03	2.554+03	1.909-03	8319.8	1.897+01	2.309-11	1.048+13	6.032+12	.639012	.000002	1.8047	1.102+00
12	2.154-03	2.773+03	2.491-03	8379.9	2.476+01	3.028-11	1.375+13	7.649+12	.617898	.000002	1.8329	1.253+00
13	3.162-03	2.990+03	3.242-03	8436.4	3.222+01	3.967-11	1.801+13	9.648+12	.595071	.000002	1.8668	1.426+00
14	4.642-03	3.203+03	4.210-03	8491.6	4.182+01	5.187-11	2.355+13	1.212+13	.571744	.000002	1.9055	1.626+00
15	6.813-03	3.412+03	5.455-03	8548.7	5.416+01	6.763-11	3.070+13	1.518+13	.549309	.000002	1.9482	1.859+00
16	1.000-02	3.619+03	7.048-03	8610.7	6.994+01	8.775-11	3.984+13	1.899+13	.529521	.000002	1.9946	2.137+00
17	1.468-02	3.822+03	9.074-03	8681.9	8.999+01	1.130-10	5.131+13	2.376+13	.514282	.000002	2.0445	2.476+00
18	2.154-02	4.021+03	1.163-02	8766.1	1.152+02	1.441-10	6.543+13	2.977+13	.505316	.000002	2.0973	2.896+00
19	3.162-02	4.218+03	1.481-02	8867.3	1.466+02	1.815-10	8.239+13	3.740+13	.504036	.000002	2.1536	3.426+00
20	4.642-02	4.412+03	1.874-02	8990.5	1.853+02	2.251-10	1.022+14	4.712+13	.512037	.000003	2.2151	4.106+00
21	6.813-02	4.603+03	2.352-02	9143.0	2.322+02	2.739-10	1.243+14	5.960+13	.532312	.000004	2.2818	4.992+00
22	1.000-01	4.794+03	2.924-02	9331.9	2.882+02	3.261-10	1.480+14	7.564+13	.567036	.000006	2.3536	6.151+00
23	1.468-01	4.987+03	3.603-02	9567.2	3.545+02	3.794-10	1.723+14	9.602+13	.618270	.000011	2.4271	7.613+00
24	2.154-01	5.186+03	4.412-02	9860.9	4.330+02	4.326-10	1.964+14	1.215+14	.686393	.000022	2.4958	9.320+00
25	3.162-01	5.401+03	5.400-02	10217.1	5.285+02	4.893-10	2.221+14	1.524+14	.761731	.000051	2.5478	1.098+01
26	4.642-01	5.643+03	6.667-02	10643.5	6.505+02	5.569-10	2.528+14	1.898+14	.833427	.000131	2.5776	1.224+01
27	6.813-01	5.930+03	8.385-02	11173.5	8.159+02	6.448-10	2.927+14	2.361+14	.895572	.000395	2.5860	1.291+01
28	1.000+00	6.278+03	1.084-01	11799.5	1.053+03	7.714-10	3.502+14	2.958+14	.938050	.001330	2.5768	1.293+01
29	1.468+00	6.707+03	1.454-01	12562.9	1.409+03	9.570-10	4.345+14	3.776+14	.964707	.004960	2.5555	1.238+01
30	2.154+00	7.236+03	2.030-01	13472.6	1.964+03	1.235-09	5.606+14	4.953+14	.979323	.019193	2.5193	1.148+01
31	3.162+00	7.673+03	2.943-01	14528.5	2.848+03	1.650-09	7.492+14	6.708+14	.986660	.070117	2.4844	1.067+01
32	4.642+00	8.616+03	4.378-01	15756.5	4.241+03	2.244-09	1.019+15	9.309+14	.990341	.220855	2.4537	1.004+01
33	6.813+00	9.447+03	6.563-01	17122.1	6.365+03	3.054-09	1.386+15	1.307+15	.992099	.491651	2.4391	9.838+00
34	1.000+01	1.037+04	9.844-01	18681.0	9.558+03	4.143-09	1.881+15	1.825+15	.993023	.760289	2.4253	9.606+00
35	1.468+01	1.138+04	1.474+00	20402.1	1.432+04	5.644-09	2.563+15	2.524+15	.993486	.904535	2.4176	9.520+00
36	2.154+01	1.247+04	2.194+00	22345.0	2.134+04	7.651-09	3.473+15	3.443+15	.993748	.963819	2.4180	9.582+00
37	3.162+01	1.363+04	3.232+00	24489.6	3.144+04	1.027-08	4.664+15	4.635+15	.993896	.985686	2.4265	9.861+00
38	4.642+01	1.487+04	4.697+00	26891.4	4.569+04	1.359-08	6.170+15	6.137+15	.994005	.993929	2.4426	1.034+01
39	6.813+01	1.617+04	6.728+00	29545.5	6.543+04	1.771-08	8.040+15	8.001+15	.994098	.997885	2.4648	1.105+01
40	1.000+02	1.753+04	9.496+00	32481.9	9.230+04	2.272-08	1.031+16	1.027+16	.994191	1.003417	2.4582	1.199+01

TEFF = 11000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.344-05	7009.5	2.628+00	4.730-12	2.148+12	5.687+11	.293772	.000000	2.0070	1.913-01
2	4.642-05	9.831+01	1.343-04	7690.1	4.233+00	5.736-12	2.604+12	1.382+12	.590429	.000000	1.8886	4.835-01
3	6.813-05	1.671+02	1.774-04	7766.3	5.593+00	7.552-12	3.429+12	1.790+12	.579746	.000000	1.8873	5.370-01
4	1.000-04	2.317+02	2.332-04	7850.0	7.352+00	9.855-12	4.474+12	2.312+12	.573896	.000000	1.8909	6.066-01
5	1.468-04	2.960+02	3.054-04	7930.6	9.630+00	1.283-11	5.826+12	2.972+12	.566465	.000001	1.8993	6.882-01
6	2.154-04	3.597+02	3.988-04	8011.9	1.257+01	1.666-11	7.564+12	3.808+12	.559120	.000001	1.8890	7.811-01
7	3.162-04	4.232+02	5.194-04	8088.3	1.638+01	2.163-11	9.819+12	4.855+12	.549003	.000001	1.8836	8.871-01
8	4.642-04	4.863+02	6.754-04	8159.2	2.130+01	2.810-11	1.276+13	6.156+12	.535793	.000001	1.8878	1.008+00
9	6.813-04	5.490+02	8.767-04	8225.3	2.765+01	3.653-11	1.659+13	7.766+12	.519921	.000001	1.9003	1.147+00
10	1.000-03	6.112+02	1.136-03	8286.8	3.585+01	4.754-11	2.158+13	9.755+12	.501715	.000001	1.9195	1.304+00
11	1.468-03	6.729+02	1.472-03	8344.4	4.642+01	6.192-11	2.811+13	1.219+13	.481502	.000001	1.9445	1.481+00
12	2.154-03	7.341+02	1.905-03	8399.0	6.009+01	8.071-11	3.664+13	1.519+13	.460193	.000001	1.9745	1.683+00
13	3.162-03	7.948+02	2.465-03	8452.5	7.774+01	1.052-10	4.775+13	1.887+13	.438622	.000001	2.0086	1.914+00
14	4.642-03	8.548+02	3.187-03	8507.1	1.005+02	1.369-10	6.216+13	2.340+13	.417824	.000001	2.0461	2.180+00
15	6.813-03	9.142+02	4.116-03	8566.2	1.298+02	1.778-10	8.072+13	2.901+13	.398916	.000001	2.0842	2.490+00
16	1.000-02	9.730+02	5.308-03	8629.9	1.673+02	2.300-10	1.044+14	3.599+13	.382526	.000001	2.1260	2.859+00
17	1.468-02	1.031+03	6.825-03	8701.6	2.150+02	2.958-10	1.343+14	4.473+13	.369759	.000001	2.1722	3.309+00
18	2.154-02	1.088+03	8.736-03	8785.3	2.752+02	3.769-10	1.711+14	5.580+13	.361942	.000001	2.2235	3.876+00
19	3.162-02	1.144+03	1.111-02	8885.6	3.499+02	4.743-10	2.153+14	6.995+13	.360480	.000001	2.2810	4.609+00
20	4.642-02	1.199+03	1.402-02	9007.9	4.414+02	5.875-10	2.667+14	8.820+13	.367012	.000002	2.3451	5.573+00
21	6.813-02	1.253+03	1.752-02	9157.6	5.511+02	7.134-10	3.239+14	1.120+14	.383973	.000002	2.4177	6.879+00
22	1.000-01	1.306+03	2.163-02	9343.1	6.798+02	8.451-10	3.837+14	1.433+14	.414863	.000004	2.4992	8.675+00
23	1.468-01	1.358+03	2.638-02	9574.2	8.283+02	9.750-10	4.427+14	1.840+14	.461578	.000006	2.5868	1.109+01
24	2.154-01	1.410+03	3.180-02	9860.0	9.978+02	1.094-09	4.965+14	2.363+14	.528484	.000012	2.6777	1.424+01
25	3.162-01	1.465+03	3.808-02	10213.7	1.193+03	1.198-09	5.439+14	3.021+14	.616483	.000026	2.7557	1.777+01
26	4.642-01	1.526+03	4.566-02	10640.1	1.428+03	1.303-09	5.915+14	3.807+14	.714659	.000067	2.8132	2.105+01
27	6.813-01	1.597+03	5.538-02	11171.0	1.728+03	1.426-09	6.474+14	4.736+14	.812325	.000202	2.8439	2.330+01
28	1.000+00	1.686+03	6.882-02	11804.7	2.144+03	1.611-09	7.313+14	5.847+14	.888095	.000676	2.8444	2.388+01
29	1.468+00	1.800+03	8.876-02	12566.3	2.762+03	1.901-09	8.630+14	7.286+14	.937546	.002588	2.8245	2.298+01
30	2.154+00	1.947+03	1.199-01	13478.9	3.727+03	2.360-09	1.071+15	9.323+14	.965327	.010380	2.7816	2.105+01
31	3.162+00	2.132+03	1.701-01	14522.1	5.284+03	3.080-09	1.398+15	1.238+15	.978986	.038824	2.7421	1.932+01
32	4.642+00	2.356+03	2.502-01	15763.6	7.775+03	4.139-09	1.879+15	1.694+15	.986026	.135763	2.7027	1.781+01
33	6.813+00	2.611+03	3.739-01	17118.8	1.163+04	5.629-09	2.556+15	2.365+15	.989265	.347597	2.6855	1.736+01
34	1.000+01	2.893+03	5.593-01	18693.1	1.740+04	7.594-09	3.448+15	3.297+15	.991035	.636857	2.6753	1.710+01
35	1.468+01	3.202+03	8.327-01	20395.7	2.592+04	1.026-08	4.657+15	4.550+15	.991906	.838778	2.6716	1.714+01
36	2.154+01	3.537+03	1.233+00	22350.0	3.838+04	1.379-08	6.261+15	6.182+15	.992432	.936813	2.6722	1.720+01
37	3.162+01	3.898+03	1.811+00	24482.4	5.640+04	1.846-08	8.379+15	8.309+15	.992715	.974488	2.6799	1.769+01
38	4.642+01	4.282+03	2.629+00	26894.7	8.188+04	2.437-08	1.106+16	1.099+16	.992919	.989069	2.6951	1.848+01
39	6.813+01	4.689+03	3.766+00	29539.9	1.172+05	3.176-08	1.442+16	1.433+16	.993066	.995181	2.7169	1.974+01
40	1.000+02	5.117+03	5.315+00	32494.5	1.654+05	4.075-08	1.850+16	1.840+16	.993205	1.000134	2.7121	2.139+01

TEFF = 12000

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.125-04	7488.1	8.311-03	9.318-15	4.230+09	3.797+09	.996696	.000050	1.3934	2.897-01
2	4.642-05	4.498+04	1.610-04	7700.9	1.204-02	1.312-14	5.957+09	5.350+09	.997470	.000101	1.3510	2.908-01
3	6.813-05	9.026+04	2.342-04	7754.5	1.765-02	1.911-14	8.678+09	7.789+09	.996858	.000093	1.3861	2.934-01
4	1.000-04	1.376+05	3.423-04	7839.0	2.574-02	2.759-14	1.253+10	1.124+10	.996405	.000096	1.4152	2.966-01
5	1.468-04	1.850+05	4.991-04	7946.2	3.728-02	3.942-14	1.790+10	1.605+10	.996165	.000112	1.4335	3.002-01
6	2.154-04	2.331+05	7.265-04	8074.3	5.412-02	5.636-14	2.558+10	2.295+10	.996055	.000139	1.4071	3.037-01
7	3.162-04	2.818+05	1.056-03	8200.8	7.898-02	8.099-14	3.677+10	3.297+10	.995888	.000170	1.3832	3.080-01
8	4.642-04	3.306+05	1.532-03	8328.3	1.156-01	1.167-13	5.299+10	4.750+10	.995683	.000205	1.3536	3.131-01
9	6.813-04	3.794+05	2.219-03	8453.6	1.694-01	1.685-13	7.652+10	6.858+10	.995396	.000241	1.3215	3.194-01
10	1.000-03	4.279+05	3.203-03	8573.1	2.478-01	2.431-13	1.104+11	9.889+10	.994988	.000274	1.3017	3.280-01
11	1.468-03	4.759+05	4.605-03	8691.3	3.604-01	3.489-13	1.584+11	1.418+11	.994511	.000305	1.2902	3.391-01
12	2.154-03	5.234+05	6.589-03	8809.2	5.203-01	4.973-13	2.258+11	2.020+11	.993985	.000339	1.2852	3.531-01
13	3.162-03	5.704+05	9.373-03	8926.1	7.450-01	7.029-13	3.191+11	2.855+11	.993410	.000373	1.2864	3.706-01
14	4.642-03	6.168+05	1.325-02	9040.4	1.058+00	9.860-13	4.476+11	3.996+11	.991680	.000406	1.2925	3.917-01
15	6.813-03	6.628+05	1.861-02	9151.7	1.487+00	1.370-12	6.221+11	5.549+11	.990776	.000437	1.3035	4.179-01
16	1.000-02	7.083+05	2.595-02	9254.5	2.069+00	1.887-12	8.566+11	7.634+11	.989760	.000457	1.3238	4.504-01
17	1.468-02	7.533+05	3.589-02	9352.2	2.847+00	2.570-12	1.167+12	1.039+12	.988603	.000471	1.3526	4.899-01
18	2.154-02	7.980+05	4.925-02	9450.1	3.869+00	3.458-12	1.570+12	1.395+12	.987418	.000489	1.3884	5.368-01
19	3.162-02	8.426+05	6.711-02	9555.8	5.196+00	4.595-12	2.086+12	1.852+12	.986403	.000524	1.4286	5.909-01
20	4.642-02	8.877+05	9.089-02	9679.7	6.903+00	6.027-12	2.736+12	2.428+12	.985834	.000596	1.4706	6.514-01
21	6.813-02	9.337+05	1.226-01	9833.8	9.086+00	7.808-12	3.545+12	3.147+12	.986004	.000748	1.5114	7.162-01
22	1.000-01	9.816+05	1.651-01	10027.9	1.189+01	1.002-11	4.548+12	4.042+12	.986968	.001070	1.5457	7.812-01
23	1.468-01	1.032+06	2.225-01	10261.9	1.555+01	1.279-11	5.808+12	5.169+12	.988347	.001647	1.5719	8.440-01
24	2.154-01	1.086+06	3.011-01	10560.6	2.041+01	1.630-11	7.398+12	6.599+12	.990264	.002962	1.5911	8.983-01
25	3.162-01	1.146+06	4.105-01	10938.5	2.702+01	2.080-11	9.444+12	8.443+12	.992292	.006192	1.6028	9.406-01
26	4.642-01	1.211+06	5.651-01	11406.9	3.625+01	2.673-11	1.214+13	1.088+13	.994038	.014755	1.6074	9.686-01
27	6.813-01	1.284+06	7.875-01	11980.6	4.950+01	3.470-11	1.575+13	1.418+13	.995358	.039220	1.6058	9.813-01
28	1.000+00	1.365+06	1.112+00	12683.0	6.895+01	4.546-11	2.064+13	1.875+13	.996257	.111507	1.6011	9.809-01
29	1.468+00	1.457+06	1.590+00	13541.8	9.775+01	5.975-11	2.713+13	2.516+13	.996808	.301213	1.5972	9.777-01
30	2.154+00	1.559+06	2.293+00	14552.7	1.403+02	7.857-11	3.567+13	3.417+13	.997098	.601726	1.5941	9.761-01
31	3.162+00	1.674+06	3.336+00	15733.7	2.041+02	1.044-10	4.741+13	4.658+13	.997240	.845099	1.5826	9.567-01
32	4.642+00	1.802+06	4.904+00	17077.9	3.021+02	1.416-10	6.427+13	6.384+13	.997295	.949552	1.5671	9.315-01
33	6.813+00	1.944+06	7.260+00	18595.3	4.520+02	1.942-10	8.817+13	8.789+13	.997305	.983797	1.5555	9.143-01
34	1.000+01	2.097+06	1.076+01	20298.0	6.772+02	2.664-10	1.210+14	1.208+14	.997297	.994548	1.5496	9.090-01
35	1.468+01	2.261+06	1.589+01	22201.2	1.009+03	3.629-10	1.648+14	1.645+14	.997285	.998049	1.5492	9.152-01
36	2.154+01	2.437+06	2.329+01	24326.5	1.484+03	4.870-10	2.211+14	2.208+14	.997281	.999463	1.5589	9.424-01
37	3.162+01	2.623+06	3.376+01	26687.4	2.146+03	6.418-10	2.914+14	2.910+14	.997288	1.001603	1.5726	9.829-01
38	4.642+01	2.822+06	4.837+01	29314.3	3.048+03	8.295-10	3.766+14	3.766+14	.997311	1.013958	1.5922	1.043+00
39	6.813+01	3.036+06	6.832+01	32236.5	4.237+03	1.045-09	4.743+14	4.777+14	.997385	1.083889	1.6205	1.138+00
40	1.000+02	3.260+06	9.450+01	35439.9	5.741+03	1.272-09	5.775+14	5.959+14	.997579	1.331597	1.6334	1.305+00

TEFF = 12000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.063-04	7440.4	2.868-02	3.253-14	1.477+10	1.312+10	.986818	.000011	1.6082	2.992-01
2	4.642-05	1.273+04	1.545-04	7779.6	4.215-02	4.561-14	2.071+10	1.852+10	.992988	.000042	1.5265	3.030-01
3	6.813-05	2.544+04	2.251-04	7856.0	6.197-02	6.642-14	3.016+10	2.693+10	.991802	.000043	1.5735	3.088-01
4	1.000-04	3.827+04	3.271-04	7969.6	9.033-02	9.547-14	4.334+10	3.869+10	.991334	.000052	1.5943	3.157-01
5	1.468-04	5.107+04	4.739-04	8097.7	1.315-01	1.368-13	6.210+10	5.541+10	.991062	.000064	1.5376	3.218-01
6	2.154-04	6.390+04	6.846-04	8216.0	1.913-01	1.963-13	8.911+10	7.946+10	.990520	.000076	1.4890	3.297-01
7	3.162-04	7.667+04	9.854-04	8329.2	2.776-01	2.810-13	1.276+11	1.137+11	.989761	.000086	1.4557	3.403-01
8	4.642-04	8.934+04	1.412-03	8440.9	4.006-01	4.004-13	1.818+11	1.618+11	.988873	.000097	1.4331	3.536-01
9	6.813-04	1.019+05	2.011-03	8552.0	5.743-01	5.669-13	2.574+11	2.289+11	.987892	.000108	1.4192	3.705-01
10	1.000-03	1.143+05	2.848-03	8663.1	8.171-01	7.967-13	3.617+11	3.214+11	.986837	.000120	1.4131	3.913-01
11	1.468-03	1.266+05	4.005-03	8774.5	1.153+00	1.111-12	5.044+11	4.476+11	.985725	.000134	1.4102	4.165-01
12	2.154-03	1.387+05	5.594-03	8883.9	1.615+00	1.537-12	6.980+11	6.187+11	.984485	.000147	1.4120	4.474-01
13	3.162-03	1.506+05	7.753-03	8986.0	2.241+00	2.111-12	9.585+11	8.482+11	.982929	.000157	1.4246	4.855-01
14	4.642-03	1.624+05	1.066-02	9081.0	3.081+00	2.877-12	1.306+12	1.152+12	.979689	.000163	1.4470	5.313-01
15	6.813-03	1.740+05	1.454-02	9169.8	4.195+00	3.883-12	1.763+12	1.551+12	.977210	.000167	1.4791	5.880-01
16	1.000-02	1.853+05	1.966-02	9254.5	5.652+00	5.190-12	2.356+12	2.068+12	.974575	.000169	1.5195	6.564-01
17	1.468-02	1.965+05	2.636-02	9339.6	7.538+00	6.868-12	3.118+12	2.728+12	.971836	.000172	1.5663	7.378-01
18	2.154-02	2.076+05	3.510-02	9432.2	9.963+00	8.993-12	4.083+12	3.564+12	.969495	.000181	1.6165	8.325-01
19	3.162-02	2.187+05	4.645-02	9538.6	1.305+01	1.166-11	5.295+12	4.614+12	.967844	.000195	1.6651	9.402-01
20	4.642-02	2.298+05	6.121-02	9665.9	1.700+01	1.499-11	6.805+12	5.927+12	.967384	.000235	1.7138	1.061+00
21	6.813-02	2.411+05	8.045-02	9825.2	2.202+01	1.910-11	8.670+12	7.561+12	.968666	.000305	1.7597	1.192+00
22	1.000-01	2.529+05	1.057-01	10028.0	2.848+01	2.416-11	1.097+13	9.596+12	.971698	.000444	1.7992	1.327+00
23	1.468-01	2.652+05	1.392-01	10274.9	3.688+01	3.049-11	1.384+13	1.216+13	.975602	.000710	1.8284	1.458+00
24	2.154-01	2.783+05	1.844-01	10585.4	4.805+01	3.847-11	1.746+13	1.541+13	.980378	.001347	1.8492	1.572+00
25	3.162-01	2.927+05	2.465-01	10973.8	6.325+01	4.873-11	2.212+13	1.963+13	.985146	.002902	1.8608	1.661+00
26	4.642-01	3.085+05	3.338-01	11445.5	8.446+01	6.227-11	2.827+13	2.520+13	.989090	.006991	1.8652	1.720+00
27	6.813-01	3.261+05	4.593-01	12035.2	1.151+02	8.047-11	3.653+13	3.271+13	.992147	.019456	1.8596	1.733+00
28	1.000+00	3.461+05	6.438-01	12742.9	1.601+02	1.055-10	4.789+13	4.314+13	.994146	.057553	1.8508	1.721+00
29	1.468+00	3.686+05	9.179-01	13601.4	2.276+02	1.396-10	6.336+13	5.786+13	.995371	.171170	1.8399	1.691+00
30	2.154+00	3.940+05	1.327+00	14611.7	3.291+02	1.854-10	8.416+13	7.899+13	.996035	.417683	1.8299	1.665+00
31	3.162+00	4.224+05	1.940+00	15786.7	4.819+02	2.475-10	1.124+14	1.088+14	.996372	.713415	1.8164	1.627+00
32	4.642+00	4.544+05	2.864+00	17131.1	7.150+02	3.352-10	1.522+14	1.502+14	.996529	.894089	1.7971	1.577+00
33	6.813+00	4.899+05	4.261+00	18634.8	1.070+03	4.599-10	2.088+14	2.075+14	.996587	.963747	1.7821	1.536+00
34	1.000+01	5.285+05	6.350+00	20337.9	1.606+03	6.313-10	2.866+14	2.856+14	.996605	.987550	1.7734	1.520+00
35	1.468+01	5.700+05	9.420+00	22226.4	2.396+03	8.613-10	3.910+14	3.899+14	.996603	.995409	1.7726	1.530+00
36	2.154+01	6.142+05	1.386+01	24352.0	3.534+03	1.159-09	5.263+14	5.251+14	.996605	.998314	1.7799	1.567+00
37	3.162+01	6.612+05	2.016+01	26702.5	5.141+03	1.538-09	6.982+14	6.967+14	.996613	1.000045	1.7928	1.634+00
38	4.642+01	7.110+05	2.895+01	29325.0	7.363+03	2.005-09	9.102+14	9.088+14	.996634	1.005580	1.8128	1.734+00
39	6.813+01	7.637+05	4.095+01	32237.1	1.036+04	2.560-09	1.162+15	1.164+15	.996687	1.036025	1.8403	1.888+00
40	1.000+02	8.185+05	5.676+01	35439.1	1.424+04	3.183-09	1.445+15	1.466+15	.996839	1.167732	1.8479	2.157+00

TEFF = 12000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.00+00	9.980-05	7437.2	9.100-02	1.047-13	4.753+10	4.105+10	.959095	.000003	1.8427	3.149-01
2	4.642-05	3.759+03	1.451-04	7918.0	1.335-01	1.425-13	6.469+10	5.738+10	.985166	.000026	1.7158	3.261-01
3	6.813-05	7.546+03	2.104-04	8016.4	1.956-01	2.063-13	9.366+10	8.295+10	.983655	.000030	1.6808	3.359-01
4	1.000-04	1.132+04	3.036-04	8122.2	2.846-01	2.966-13	1.346+11	1.191+11	.982132	.000033	1.6397	3.479-01
5	1.468-04	1.502+04	4.351-04	8227.2	4.107-01	4.229-13	1.920+11	1.695+11	.980508	.000037	1.6075	3.630-01
6	2.154-04	1.868+04	6.195-04	8332.7	5.878-01	5.981-13	2.715+11	2.393+11	.978829	.000042	1.5834	3.816-01
7	3.162-04	2.228+04	8.756-04	8438.7	8.345-01	8.391-13	3.810+11	3.351+11	.977083	.000046	1.5675	4.047-01
8	4.642-04	2.584+04	1.229-03	8545.6	1.175+00	1.168-12	5.301+11	4.655+11	.975302	.000052	1.5525	4.324-01
9	6.813-04	2.935+04	1.712-03	8651.3	1.641+00	1.613-12	7.321+11	6.417+11	.973352	.000058	1.5421	4.661-01
10	1.000-03	3.281+04	2.366-03	8752.5	2.273+00	2.210-12	1.003+12	8.773+11	.971039	.000063	1.5438	5.073-01
11	1.468-03	3.620+04	3.244-03	8849.2	3.119+00	3.005-12	1.364+12	1.189+12	.968346	.000067	1.5561	5.577-01
12	2.154-03	3.954+04	4.410-03	8940.5	4.242+00	4.051-12	1.839+12	1.599+12	.965205	.000070	1.5782	6.190-01
13	3.162-03	4.281+04	5.947-03	9025.8	5.719+00	5.423-12	2.462+12	2.128+12	.959958	.000072	1.6089	6.920-01
14	4.642-03	4.601+04	7.954-03	9106.0	7.640+00	7.197-12	3.267+12	2.810+12	.955383	.000073	1.6485	7.814-01
15	6.813-03	4.915+04	1.055-02	9182.9	1.011+01	9.472-12	4.300+12	3.680+12	.950480	.000074	1.6949	8.887-01
16	1.000-02	5.223+04	1.390-02	9260.4	1.329+01	1.237-11	5.614+12	4.779+12	.945396	.000075	1.7426	1.015+00
17	1.468-02	5.527+04	1.819-02	9339.5	1.732+01	1.602-11	7.273+12	6.159+12	.940502	.000077	1.7946	1.164+00
18	2.154-02	5.828+04	2.366-02	9427.4	2.243+01	2.060-11	9.352+12	7.883+12	.936226	.000081	1.8496	1.339+00
19	3.162-02	6.128+04	3.065-02	9532.5	2.890+01	2.627-11	1.192+13	1.002+13	.933841	.000090	1.9047	1.541+00
20	4.642-02	6.429+04	3.958-02	9663.3	3.706+01	3.322-11	1.508+13	1.269+13	.934306	.000109	1.9576	1.769+00
21	6.813-02	6.736+04	5.102-02	9828.7	4.740+01	4.170-11	1.893+13	1.599+13	.938188	.000146	2.0067	2.018+00
22	1.000-01	7.053+04	6.582-02	10038.3	6.061+01	5.203-11	2.362+13	2.011+13	.945241	.000219	2.0483	2.278+00
23	1.468-01	7.386+04	8.522-02	10291.3	7.776+01	6.486-11	2.945+13	2.528+13	.953694	.000359	2.0791	2.532+00
24	2.154-01	7.743+04	1.111-01	10609.2	1.005+02	8.090-11	3.673+13	3.187+13	.963579	.000679	2.1005	2.752+00
25	3.162-01	8.132+04	1.465-01	11001.0	1.313+02	1.015-10	4.609+13	4.038+13	.973037	.001508	2.1126	2.926+00
26	4.642-01	8.564+04	1.960-01	11483.6	1.744+02	1.287-10	5.841+13	5.161+13	.980978	.003741	2.1153	3.033+00
27	6.813-01	9.050+04	2.670-01	12066.0	2.362+02	1.653-10	7.505+13	6.676+13	.986815	.010246	2.1110	3.071+00
28	1.000+00	9.601+04	3.714-01	12777.4	3.273+02	2.157-10	9.791+13	8.764+13	.990797	.031051	2.0997	3.030+00
29	1.468+00	1.023+05	5.282-01	13635.2	4.647+02	2.856-10	1.297+14	1.172+14	.993234	.097193	2.0828	2.937+00
30	2.154+00	1.095+05	7.662-01	14646.9	6.745+02	3.822-10	1.735+14	1.601+14	.994579	.271665	2.0652	2.842+00
31	3.162+00	1.176+05	1.127+00	15822.8	9.935+02	5.134-10	2.331+14	2.220+14	.995277	.560776	2.0474	2.759+00
32	4.642+00	1.266+05	1.668+00	17161.6	1.475+03	6.940-10	3.150+14	3.080+14	.995624	.809618	2.0340	2.708+00
33	6.813+00	1.366+05	2.480+00	18667.4	2.202+03	9.461-10	4.295+14	4.251+14	.995788	.930425	2.0176	2.639+00
34	1.000+01	1.476+05	3.700+00	20354.4	3.297+03	1.296-09	5.884+14	5.851+14	.995858	.975150	2.0062	2.595+00
35	1.468+01	1.594+05	5.503+00	22250.7	4.919+03	1.767-09	8.024+14	7.992+14	.995886	.990765	2.0030	2.601+00
36	2.154+01	1.721+05	8.114+00	24360.1	7.265+03	2.384-09	1.082+15	1.079+15	.995900	.996403	2.0096	2.663+00
37	3.162+01	1.855+05	1.182+01	26717.0	1.059+04	3.168-09	1.438+15	1.434+15	.995919	.998819	2.0237	2.778+00
38	4.642+01	1.997+05	1.697+01	29328.9	1.518+04	4.135-09	1.877+15	1.872+15	.995950	1.002162	2.0462	2.973+00
39	6.813+01	2.146+05	2.396+01	32236.8	2.137+04	5.291-09	2.402+15	2.401+15	.995996	1.017469	2.0738	3.236+00
40	1.000+02	2.301+05	3.324+01	35440.0	2.954+04	6.630-09	3.010+15	3.030+15	.996115	1.088734	2.0753	3.644+00

TEFF = 12000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.984-05	7484.6	2.720-01	3.199-13	1.452+11	1.181+11	.902755	.000001	1.9903	3.388-01
2	4.642-05	1.138+03	1.314-04	8030.2	4.002-01	4.248-13	1.929+11	1.682+11	.968151	.000015	1.8103	3.675-01
3	6.813-05	2.273+03	1.889-04	8126.7	5.784-01	6.077-13	2.759+11	2.396+11	.964774	.000017	1.7813	3.880-01
4	1.000-04	3.371+03	2.685-04	8230.6	8.254-01	8.573-13	3.892+11	3.371+11	.962043	.000019	1.7547	4.127-01
5	1.468-04	4.448+03	3.778-04	8334.9	1.165+00	1.197-12	5.433+11	4.692+11	.959317	.000021	1.7269	4.423-01
6	2.154-04	5.504+03	5.269-04	8438.2	1.629+00	1.655-12	7.513+11	6.470+11	.956455	.000024	1.7006	4.779-01
7	3.162-04	6.542+03	7.285-04	8537.6	2.257+00	2.269-12	1.030+12	8.841+11	.953125	.000026	1.6885	5.215-01
8	4.642-04	7.559+03	9.983-04	8634.2	3.096+00	3.085-12	1.401+12	1.197+12	.949438	.000029	1.6880	5.743-01
9	6.813-04	8.555+03	1.356-03	8727.3	4.211+00	4.158-12	1.888+12	1.606+12	.945298	.000031	1.6980	6.382-01
10	1.000-03	9.531+03	1.827-03	8816.1	5.674+00	5.561-12	2.524+12	2.138+12	.940543	.000033	1.7176	7.155-01
11	1.468-03	1.049+04	2.440-03	8900.0	7.581+00	7.379-12	3.350+12	2.820+12	.935056	.000034	1.7460	8.085-01
12	2.154-03	1.142+04	3.234-03	8978.7	1.004+01	9.721-12	4.413+12	3.690+12	.928699	.000035	1.7826	9.204-01
13	3.162-03	1.234+04	4.256-03	9055.5	1.322+01	1.273-11	5.780+12	4.789+12	.920048	.000036	1.8182	1.050+00
14	4.642-03	1.324+04	5.565-03	9125.7	1.726+01	1.657-11	7.524+12	6.177+12	.911753	.000036	1.8625	1.208+00
15	6.813-03	1.412+04	7.230-03	9192.8	2.240+01	2.145-11	9.737+12	7.913+12	.902575	.000035	1.9131	1.397+00
16	1.000-02	1.498+04	9.341-03	9261.2	2.889+01	2.759-11	1.252+13	1.007+13	.893215	.000035	1.9677	1.620+00
17	1.468-02	1.584+04	1.201-02	9336.1	3.706+01	3.526-11	1.601+13	1.275+13	.884717	.000036	2.0247	1.882+00
18	2.154-02	1.668+04	1.538-02	9423.8	4.734+01	4.475-11	2.031+13	1.607+13	.878493	.000039	2.0822	2.190+00
19	3.162-02	1.753+04	1.963-02	9531.0	6.022+01	5.637-11	2.559+13	2.019+13	.876020	.000044	2.1390	2.546+00
20	4.642-02	1.838+04	2.500-02	9665.3	7.642+01	7.043-11	3.198+13	2.530+13	.878592	.000055	2.1939	2.956+00
21	6.813-02	1.924+04	3.180-02	9835.1	9.680+01	8.730-11	3.963+13	3.165+13	.886951	.000075	2.2458	3.417+00
22	1.000-01	2.014+04	4.049-02	10047.9	1.226+02	1.076-10	4.883+13	3.959+13	.900487	.000114	2.2894	3.901+00
23	1.468-01	2.108+04	5.176-02	10302.1	1.560+02	1.324-10	6.010+13	4.959+13	.916366	.000190	2.3211	4.374+00
24	2.154-01	2.209+04	6.666-02	10618.6	1.999+02	1.631-10	7.407+13	6.230+13	.934242	.000359	2.3465	4.811+00
25	3.162-01	2.320+04	8.679-02	11010.4	2.590+02	2.021-10	9.176+13	7.863+13	.951648	.000776	2.3625	5.165+00
26	4.642-01	2.443+04	1.148-01	11495.6	3.409+02	2.530-10	1.149+14	9.999+13	.966630	.001991	2.3674	5.378+00
27	6.813-01	2.583+04	1.548-01	12084.3	4.583+02	3.217-10	1.460+14	1.287+14	.977755	.005564	2.3630	5.441+00
28	1.000+00	2.744+04	2.138-01	12800.1	6.316+02	4.168-10	1.892+14	1.682+14	.985271	.017204	2.3497	5.344+00
29	1.468+00	2.930+04	3.032-01	13659.2	8.948+02	5.509-10	2.501+14	2.243+14	.989851	.055840	2.3271	5.126+00
30	2.154+00	3.144+04	4.403-01	14668.3	1.300+03	7.399-10	3.359+14	3.058+14	.992398	.169383	2.3053	4.915+00
31	3.162+00	3.385+04	6.490-01	15848.1	1.918+03	9.975-10	4.529+14	4.239+14	.993767	.409720	2.2872	4.763+00
32	4.642+00	3.655+04	9.622-01	17189.6	2.849+03	1.346-09	6.109+14	5.896+14	.994465	.695991	2.2728	4.687+00
33	6.813+00	3.952+04	1.431+00	18681.1	4.245+03	1.827-09	8.295+14	8.158+14	.994807	.875345	2.2584	4.591+00
34	1.000+01	4.280+04	2.133+00	20377.3	6.342+03	2.493-09	1.132+15	1.123+15	.994985	.953994	2.2446	4.487+00
35	1.468+01	4.637+04	3.176+00	22256.8	9.458+03	3.399-09	1.543+15	1.534+15	.995066	.982454	2.2421	4.502+00
36	2.154+01	5.017+04	4.681+00	24369.4	1.395+04	4.575-09	2.077+15	2.068+15	.995117	.993085	2.2509	4.637+00
37	3.162+01	5.418+04	6.801+00	26723.4	2.027+04	6.061-09	2.752+15	2.741+15	.995162	.997213	2.2676	4.869+00
38	4.642+01	5.840+04	9.738+00	29328.3	2.899+04	7.899-09	3.586+15	3.573+15	.995209	1.000150	2.2896	5.206+00
39	6.813+01	6.287+04	1.374+01	32241.6	4.084+04	1.012-08	4.595+15	4.583+15	.995272	1.008899	2.3148	5.649+00
40	1.000+02	6.756+04	1.910+01	35463.0	5.669+04	1.276-08	5.793+15	5.802+15	.995366	1.046627	2.3107	6.295+00



TEFF = 12000

LOG G = 4.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	7.862-05	7551.3	7.700-01	9.392-13	4.264+11	3.119+11	.812314	.000001	2.1454	3.762-01
2	4.642-05	3.337+02	1.135-04	8154.6	1.114+00	1.181-12	5.361+11	4.537+11	.939869	.000010	1.9083	4.430-01
3	6.813-05	6.172+02	1.602-04	8244.2	1.579+00	1.659-12	7.533+11	6.332+11	.933582	.000011	1.8771	4.806-01
4	1.000-04	9.426+02	2.236-04	8339.9	2.207+00	2.300-12	1.044+12	8.725+11	.928153	.000012	1.8537	5.262-01
5	1.468-04	1.306+03	3.080-04	8434.0	3.046+00	3.146-12	1.428+12	1.187+12	.922629	.000013	1.8415	5.811-01
6	2.154-04	1.510+03	4.197-04	8526.6	4.155+00	4.258-12	1.933+12	1.595+12	.916921	.000014	1.8395	6.471-01
7	3.162-04	1.507+03	5.664-04	8617.0	5.611+00	5.707-12	2.591+12	2.125+12	.910872	.000015	1.8468	7.264-01
8	4.642-04	2.196+03	7.574-04	8704.4	7.508+00	7.584-12	3.443+12	2.803+12	.904285	.000016	1.8628	8.213-01
9	6.813-04	2.479+03	1.004-03	8787.4	9.959+00	1.000-11	4.542+12	3.668+12	.896815	.000017	1.8871	9.349-01
10	1.000-03	2.756+03	1.322-03	8868.7	1.311+01	1.310-11	5.948+12	4.760+12	.888868	.000018	1.9112	1.069+00
11	1.468-03	3.028+03	1.729-03	8942.9	1.715+01	1.707-11	7.751+12	6.137+12	.879259	.000019	1.9431	1.229+00
12	2.154-03	3.294+03	2.248-03	9011.4	2.229+01	2.217-11	1.007+13	7.851+12	.866355	.000019	1.9816	1.415+00
13	3.162-03	3.555+03	2.908-03	9074.8	2.882+01	2.865-11	1.301+13	9.995+12	.853158	.000018	2.0267	1.639+00
14	4.642-03	3.811+03	3.742-03	9135.8	3.706+01	3.687-11	1.674+13	1.265+13	.839002	.000018	2.0767	1.904+00
15	6.813-03	4.063+03	4.795-03	9197.1	4.746+01	4.725-11	2.145+13	1.592+13	.824393	.000018	2.1300	2.216+00
16	1.000-02	4.311+03	6.122-03	9262.9	6.054+01	6.029-11	2.737+13	1.997+13	.810328	.000018	2.1857	2.583+00
17	1.468-02	4.557+03	7.793-03	9337.8	7.698+01	7.651-11	3.473+13	2.497+13	.798645	.000019	2.2427	3.013+00
18	2.154-02	4.800+03	9.892-03	9426.9	9.757+01	9.645-11	4.379+13	3.118+13	.790855	.000020	2.3005	3.524+00
19	3.162-02	5.044+03	1.253-02	9536.7	1.233+02	1.207-10	5.478+13	3.892+13	.788942	.000023	2.3559	4.119+00
20	4.642-02	5.290+03	1.583-02	9671.7	1.556+02	1.497-10	6.797+13	4.858+13	.793699	.000029	2.4112	4.820+00
21	6.813-02	5.539+03	1.998-02	9841.0	1.959+02	1.840-10	8.354+13	6.070+13	.806892	.000040	2.4657	5.638+00
22	1.000-01	5.795+03	2.520-02	10051.8	2.465+02	2.242-10	1.018+14	7.589+13	.827863	.000061	2.5151	6.544+00
23	1.468-01	6.064+03	3.186-02	10306.5	3.109+02	2.720-10	1.235+14	9.498+13	.854170	.000101	2.5550	7.467+00
24	2.154-01	6.353+03	4.052-02	10626.1	3.942+02	3.293-10	1.495+14	1.191+14	.885077	.000195	2.5865	8.340+00
25	3.162-01	6.570+03	5.204-02	11018.2	5.049+02	4.007-10	1.819+14	1.499+14	.915246	.000422	2.6084	9.080+00
26	4.642-01	7.025+03	6.787-02	11506.4	6.567+02	4.926-10	2.237+14	1.897+14	.941865	.001080	2.6166	9.540+00
27	6.813-01	7.432+03	9.037-02	12093.2	8.723+02	6.167-10	2.800+14	2.426+14	.961919	.003026	2.6143	9.704+00
28	1.000+00	7.906+03	1.235-01	12806.6	1.190+03	7.888-10	3.581+14	3.150+14	.975678	.009388	2.6013	9.528+00
29	1.468+00	8.460+03	1.737-01	13667.2	1.673+03	1.034-09	4.692+14	4.173+14	.984207	.031098	2.5781	9.103+00
30	2.154+00	9.107+03	2.513-01	14683.5	2.421+03	1.384-09	6.282+14	5.657+14	.988998	.100614	2.5518	8.631+00
31	3.162+00	9.846+03	3.708-01	15863.4	3.574+03	1.871-09	8.496+14	7.821+14	.991543	.278492	2.5282	8.289+00
32	4.642+00	1.067+04	5.505-01	17192.0	5.310+03	2.528-09	1.148+15	1.090+15	.992840	.554207	2.5151	8.182+00
33	6.813+00	1.158+04	8.183-01	18695.1	7.903+03	3.417-09	1.551+15	1.511+15	.993529	.794829	2.5017	8.031+00
34	1.000+01	1.258+04	1.219+00	20378.0	1.178+04	4.642-09	2.108+15	2.080+15	.993889	.918551	2.4905	7.918+00
35	1.468+01	1.366+04	1.807+00	22261.7	1.747+04	6.289-09	2.855+15	2.833+15	.994084	.968392	2.4913	8.012+00
36	2.154+01	1.482+04	2.652+00	24366.3	2.567+04	8.429-09	3.827+15	3.804+15	.994202	.987390	2.5000	8.248+00
37	3.162+01	1.604+04	3.845+00	26716.5	3.721+04	1.114-08	5.059+15	5.033+15	.994289	.994622	2.5154	8.649+00
38	4.642+01	1.734+04	5.499+00	29323.7	5.320+04	1.451-08	6.588+15	6.558+15	.994367	.998239	2.5372	9.234+00
39	6.813+01	1.871+04	7.758+00	32230.7	7.499+04	1.860-08	8.446+15	8.413+15	.994452	1.003757	2.5624	9.995+00
40	1.000+02	2.014+04	1.079+01	35430.5	1.042+05	2.348-08	1.066+16	1.065+16	.994543	1.026023	2.5580	1.107+01

TEFF = 12000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	6.342-05	7632.8	1.988+00	2.552-12	1.159+12	7.290+11	.698679	.000001	2.2547	4.274-01
2	4.642-05	1.040+02	9.278-05	8251.4	2.913+00	3.130-12	1.421+12	1.136+12	.888042	.000007	2.0011	5.727-01
3	6.813-05	2.034+02	1.287-04	8327.7	4.044+00	4.335-12	1.968+12	1.550+12	.874817	.000006	1.9980	6.403-01
4	1.000-04	2.959+02	1.754-04	8418.9	5.519+00	5.876-12	2.668+12	2.082+12	.866503	.000007	1.9953	7.211-01
5	1.468-04	3.850+02	2.362-04	8506.4	7.434+00	7.868-12	3.572+12	2.759+12	.857963	.000007	2.0008	8.174-01
6	2.154-04	4.714+02	3.146-04	8593.0	9.906+00	1.042-11	4.732+12	3.620+12	.849454	.000008	2.0138	9.317-01
7	3.162-04	5.557+02	4.155-04	8679.4	1.309+01	1.369-11	6.214+12	4.706+12	.841039	.000009	2.0238	1.066+00
8	4.642-04	6.380+02	5.445-04	8760.0	1.715+01	1.787-11	8.113+12	6.071+12	.831011	.000009	2.0419	1.225+00
9	6.813-04	7.186+02	7.091-04	8835.0	2.233+01	2.321-11	1.054+13	7.775+12	.819290	.000010	2.0676	1.412+00
10	1.000-03	7.977+02	9.182-04	8904.2	2.892+01	3.004-11	1.364+13	9.892+12	.805494	.000010	2.1002	1.633+00
11	1.468-03	8.752+02	1.183-03	8968.0	3.728+01	3.876-11	1.759+13	1.251+13	.789757	.000010	2.1386	1.891+00
12	2.154-03	9.515+02	1.520-03	9027.6	4.786+01	4.994-11	2.267+13	1.573+13	.770563	.000010	2.1809	2.188+00
13	3.162-03	1.027+03	1.945-03	9085.2	6.125+01	6.416-11	2.913+13	1.971+13	.751507	.000010	2.2279	2.540+00
14	4.642-03	1.101+03	2.484-03	9142.4	7.819+01	8.224-11	3.734+13	2.461+13	.731911	.000009	2.2778	2.950+00
15	6.813-03	1.174+03	3.164-03	9201.8	9.959+01	1.052-10	4.774+13	3.063+13	.712458	.000009	2.3301	3.428+00
16	1.000-02	1.246+03	4.024-03	9268.9	1.265+02	1.339-10	6.080+13	3.808+13	.695473	.000010	2.3808	3.982+00
17	1.468-02	1.318+03	5.109-03	9343.7	1.606+02	1.700-10	7.718+13	4.731+13	.680716	.000010	2.4337	4.634+00
18	2.154-02	1.389+03	6.474-03	9432.4	2.034+02	2.144-10	9.734+13	5.882+13	.671058	.000011	2.4887	5.417+00
19	3.162-02	1.460+03	8.185-03	9540.4	2.569+02	2.682-10	1.218+14	7.327+13	.668259	.000013	2.5458	6.367+00
20	4.642-02	1.531+03	1.031-02	9674.9	3.234+02	3.317-10	1.506+14	9.149+13	.674577	.000016	2.6048	7.528+00
21	6.813-02	1.603+03	1.295-02	9843.4	4.056+02	4.051-10	1.839+14	1.146+14	.691526	.000021	2.6651	8.944+00
22	1.000-01	1.676+03	1.621-02	10052.9	5.070+02	4.883-10	2.217+14	1.437+14	.719673	.000032	2.7234	1.060+01
23	1.468-01	1.752+03	2.027-02	10306.9	6.331+02	5.830-10	2.647+14	1.803+14	.756856	.000054	2.7735	1.238+01
24	2.154-01	1.833+03	2.541-02	10623.7	7.927+02	6.911-10	3.138+14	2.268+14	.802690	.000102	2.8175	1.422+01
25	3.162-01	1.922+03	3.209-02	11017.3	9.995+02	8.190-10	3.718+14	2.852+14	.851866	.000223	2.8504	1.585+01
26	4.642-01	2.022+03	4.107-02	11506.7	1.277+03	9.790-10	4.445+14	3.593+14	.897941	.000561	2.8666	1.694+01
27	6.813-01	2.138+03	5.367-02	12096.8	1.665+03	1.194-09	5.420+14	4.558+14	.933840	.001616	2.8686	1.739+01
28	1.000+00	2.276+03	7.213-02	12816.6	2.236+03	1.493-09	6.780+14	5.858+14	.959070	.005141	2.8563	1.712+01
29	1.468+00	2.441+03	1.001-01	13676.1	3.102+03	1.926-09	8.745+14	7.688+14	.974566	.017279	2.8307	1.630+01
30	2.154+00	2.636+03	1.436-01	14686.9	4.447+03	2.555-09	1.160+15	1.034+15	.983301	.057703	2.8027	1.537+01
31	3.162+00	2.862+03	2.111-01	15871.6	6.543+03	3.449-09	1.566+15	1.421+15	.988042	.176133	2.7734	1.458+01
32	4.642+00	3.117+03	3.137-01	17195.1	9.727+03	4.671-09	2.121+15	1.977+15	.990439	.407276	2.7584	1.432+01
33	6.813+00	3.397+03	4.660-01	18707.8	1.446+04	6.289-09	2.855+15	2.744+15	.991758	.681317	2.7495	1.422+01
34	1.000+01	3.703+03	6.901-01	20376.9	2.142+04	8.474-09	3.847+15	3.770+15	.992452	.860812	2.7446	1.424+01
35	1.468+01	4.035+03	1.018+00	22272.5	3.160+04	1.139-08	5.169+15	5.110+15	.992861	.944600	2.7455	1.435+01
36	2.154+01	4.392+03	1.490+00	24368.8	4.627+04	1.521-08	6.905+15	6.851+15	.993096	.977543	2.7533	1.475+01
37	3.162+01	4.773+03	2.158+00	26728.8	6.702+04	2.007-08	9.111+15	9.053+15	.993262	.990304	2.7684	1.543+01
38	4.642+01	5.177+03	3.086+00	29330.7	9.580+04	2.613-08	1.186+16	1.179+16	.993388	.995809	2.7892	1.646+01
39	6.813+01	5.604+03	4.354+00	32243.6	1.351+05	3.351-08	1.521+16	1.513+16	.993512	1.000475	2.8144	1.780+01
40	1.000+02	6.053+03	6.057+00	35456.3	1.878+05	4.237-08	1.924+16	1.916+16	.993634	1.014031	2.8112	1.965+01

TEFF = 13000

LOG G = 2.0

	TAU(RUSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RUSS)
1	0.000+00	0.000+00	1.120-04	8344.7	9.004-03	9.055-15	4.111+09	3.702+09	.999676	.002871	1.3036	2.843-01
2	4.642-05	4.805+04	1.632-04	8442.5	1.310-02	1.303-14	5.916+09	5.326+09	.999629	.002964	1.3067	2.854-01
3	6.813-05	9.575+04	2.387-04	8431.6	1.907-02	1.899-14	8.620+09	7.758+09	.999449	.001977	1.3450	2.878-01
4	1.000-04	1.441+05	3.490-04	8483.7	2.761-02	2.733-14	1.241+10	1.117+10	.999293	.001677	1.3682	2.900-01
5	1.468-04	1.930+05	5.096-04	8540.2	3.982-02	3.917-14	1.778+10	1.599+10	.999114	.001479	1.3891	2.927-01
6	2.154-04	2.428+05	7.430-04	8623.9	5.736-02	5.587-14	2.536+10	2.282+10	.998961	.001459	1.3989	2.956-01
7	3.162-04	2.934+05	1.082-03	8724.8	8.270-02	7.962-14	3.615+10	3.251+10	.998824	.001530	1.4014	2.989-01
8	4.642-04	3.450+05	1.574-03	8845.8	1.196-01	1.136-13	5.156+10	4.637+10	.998719	.001717	1.3915	3.028-01
9	6.813-04	3.972+05	2.285-03	8976.1	1.735-01	1.624-13	7.372+10	6.629+10	.998615	.001953	1.3785	3.076-01
10	1.000-03	4.499+05	3.311-03	9108.7	2.519-01	2.324-13	1.055+11	9.480+10	.997720	.002217	1.3689	3.137-01
11	1.468-03	5.027+05	4.783-03	9243.7	3.649-01	3.318-13	1.507+11	1.354+11	.997497	.002505	1.3634	3.218-01
12	2.154-03	5.556+05	6.883-03	9379.2	5.266-01	4.720-13	2.143+11	1.924+11	.997285	.002810	1.3617	3.321-01
13	3.162-03	6.085+05	9.858-03	9513.7	7.556-01	6.676-13	3.031+11	2.722+11	.997049	.003119	1.3645	3.452-01
14	4.642-03	6.612+05	1.404-02	9646.3	1.076+00	9.382-13	4.260+11	3.824+11	.996786	.003421	1.3717	3.615-01
15	6.813-03	7.137+05	1.988-02	9775.9	1.521+00	1.308-12	5.940+11	5.331+11	.996492	.003703	1.3840	3.818-01
16	1.000-02	7.661+05	2.796-02	9898.7	2.129+00	1.809-12	8.212+11	7.368+11	.996149	.003920	1.4032	4.069-01
17	1.468-02	8.183+05	3.904-02	10018.1	2.948+00	2.475-12	1.124+12	1.007+12	.995774	.004116	1.4281	4.372-01
18	2.154-02	8.704+05	5.411-02	10137.4	4.037+00	3.351-12	1.521+12	1.364+12	.995383	.004328	1.4560	4.731-01
19	3.162-02	9.228+05	7.449-02	10257.0	5.470+00	4.487-12	2.037+12	1.826+12	.994985	.004575	1.4889	5.149-01
20	4.642-02	9.758+05	1.019-01	10387.9	7.330+00	5.937-12	2.696+12	2.415+12	.994654	.005011	1.5247	5.620-01
21	6.813-02	1.030+06	1.388-01	10543.2	9.731+00	7.765-12	3.525+12	3.159+12	.994488	.005897	1.5601	6.122-01
22	1.000-01	1.086+06	1.887-01	10737.3	1.284+01	1.006-11	4.566+12	4.092+12	.994547	.007638	1.5916	6.627-01
23	1.468-01	1.146+06	2.567-01	10984.4	1.689+01	1.293-11	5.870+12	5.265+12	.994824	.011011	1.6198	7.116-01
24	2.154-01	1.209+06	3.503-01	11307.5	2.225+01	1.654-11	7.509+12	6.743+12	.995350	.018757	1.6398	7.515-01
25	3.162-01	1.279+06	4.815-01	11720.1	2.956+01	2.117-11	9.613+12	8.655+12	.995955	.036818	1.6522	7.815-01
26	4.642-01	1.357+06	6.682-01	12236.8	3.978+01	2.723-11	1.236+13	1.119+13	.996502	.080829	1.6581	8.014-01
27	6.813-01	1.443+06	9.365-01	12871.9	5.434+01	3.516-11	1.596+13	1.463+13	.996922	.186398	1.6621	8.156-01
28	1.000+00	1.540+06	1.325+00	13659.3	7.524+01	4.535-11	2.059+13	1.932+13	.997216	.404763	1.6651	8.255-01
29	1.468+00	1.649+06	1.890+00	14613.0	1.057+02	5.866-11	2.663+13	2.575+13	.997391	.685721	1.6636	8.271-01
30	2.154+00	1.773+06	2.726+00	15723.5	1.511+02	7.718-11	3.504+13	3.456+13	.997477	.878843	1.6552	8.155-01
31	3.162+00	1.913+06	3.976+00	17019.2	2.204+02	1.036-10	4.702+13	4.677+13	.997511	.960110	1.6424	7.977-01
32	4.642+00	2.067+06	5.844+00	18482.7	3.262+02	1.410-10	6.402+13	6.385+13	.997511	.986889	1.6323	7.876-01
33	6.813+00	2.234+06	8.605+00	20132.3	4.845+02	1.922-10	8.725+13	8.710+13	.997500	.995520	1.6282	7.867-01
34	1.000+01	2.413+06	1.264+01	21978.4	7.170+02	2.605-10	1.183+14	1.181+14	.997486	.998384	1.6274	7.936-01
35	1.468+01	2.606+06	1.846+01	24043.8	1.050+03	3.486-10	1.583+14	1.580+14	.997480	.999589	1.6356	8.145-01
36	2.154+01	2.811+06	2.672+01	26346.9	1.513+03	4.584-10	2.081+14	2.079+14	.997484	1.001676	1.6493	8.491-01
37	3.162+01	3.032+06	3.826+01	28912.6	2.142+03	5.910-10	2.683+14	2.684+14	.997506	1.014220	1.6667	8.978-01
38	4.642+01	3.270+06	5.408+01	31758.3	2.967+03	7.426-10	3.372+14	3.396+14	.997574	1.085420	1.6946	9.744-01
39	6.813+01	3.525+06	7.497+01	34954.4	3.977+03	8.930-10	4.054+14	4.192+14	.997770	1.349733	1.7322	1.104+00
40	1.000+02	3.804+06	1.021+02	38431.4	5.205+03	1.045-09	4.745+14	5.079+14	.997978	1.714822	1.7420	1.249+00

TEFF = 13000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.082-04	8192.7	3.039-02	3.115-14	1.414+10	1.271+10	.998384	.000435	1.5135	2.944-01
2	4.642-05	1.351+04	1.576-04	8391.5	4.449-02	4.455-14	2.022+10	1.818+10	.998571	.000688	1.4609	2.958-01
3	6.813-05	2.686+04	2.301-04	8423.3	6.522-02	6.505-14	2.953+10	2.654+10	.998081	.000557	1.5043	3.004-01
4	1.000-04	4.033+04	3.353-04	8500.1	9.504-02	9.396-14	4.266+10	3.831+10	.997685	.000524	1.5254	3.053-01
5	1.468-04	5.377+04	4.871-04	8599.2	1.380-01	1.349-13	6.124+10	5.499+10	.997371	.000548	1.5156	3.107-01
6	2.154-04	6.728+04	7.057-04	8707.1	2.001-01	1.932-13	8.771+10	7.873+10	.997048	.000585	1.5042	3.175-01
7	3.162-04	8.081+04	1.019-03	8824.8	2.893-01	2.757-13	1.251+11	1.123+11	.996758	.000646	1.4924	3.259-01
8	4.642-04	9.436+04	1.465-03	8947.9	4.168-01	3.917-13	1.778+11	1.595+11	.996474	.000723	1.4831	3.365-01
9	6.813-04	1.079+05	2.098-03	9075.5	5.979-01	5.543-13	2.517+11	2.255+11	.995238	.000816	1.4769	3.495-01
10	1.000-03	1.214+05	2.989-03	9205.5	8.529-01	7.798-13	3.540+11	3.171+11	.994812	.000937	1.4751	3.660-01
11	1.468-03	1.348+05	4.232-03	9337.1	1.209+00	1.090-12	4.948+11	4.430+11	.994428	.001060	1.4757	3.862-01
12	2.154-03	1.482+05	5.953-03	9464.8	1.702+00	1.514-12	6.872+11	6.150+11	.993978	.001177	1.4825	4.112-01
13	3.162-03	1.614+05	8.313-03	9585.2	2.375+00	2.087-12	9.473+11	8.474+11	.993429	.001270	1.4980	4.424-01
14	4.642-03	1.745+05	1.152-02	9698.7	3.284+00	2.853-12	1.295+12	1.158+12	.992778	.001341	1.5216	4.806-01
15	6.813-03	1.875+05	1.582-02	9807.1	4.498+00	3.865-12	1.755+12	1.568+12	.992034	.001394	1.5524	5.271-01
16	1.000-02	2.002+05	2.156-02	9911.6	6.098+00	5.187-12	2.355+12	2.102+12	.991206	.001435	1.5902	5.832-01
17	1.468-02	2.129+05	2.914-02	10017.1	8.186+00	6.891-12	3.128+12	2.790+12	.990375	.001493	1.6321	6.493-01
18	2.154-02	2.255+05	3.912-02	10125.1	1.089+01	9.074-12	4.120+12	3.671+12	.989527	.001561	1.6732	7.257-01
19	3.162-02	2.380+05	5.220-02	10237.3	1.438+01	1.185-11	5.380+12	4.790+12	.988729	.001661	1.7171	8.136-01
20	4.642-02	2.507+05	6.932-02	10366.6	1.885+01	1.534-11	6.965+12	6.199+12	.988216	.001862	1.7621	9.116-01
21	6.813-02	2.636+05	9.180-02	10526.6	2.459+01	1.971-11	8.947+12	7.962+12	.988168	.002261	1.8051	1.016+00
22	1.000-01	2.769+05	1.215-01	10731.3	3.200+01	2.515-11	1.142+13	1.017+13	.988716	.003055	1.8427	1.122+00
23	1.468-01	2.909+05	1.613-01	10994.9	4.171+01	3.199-11	1.452+13	1.295+13	.989770	.004633	1.8738	1.223+00
24	2.154-01	3.059+05	2.155-01	11331.3	5.467+01	4.066-11	1.846+13	1.649+13	.991254	.008178	1.8954	1.306+00
25	3.162-01	3.222+05	2.907-01	11757.7	7.246+01	5.188-11	2.355+13	2.109+13	.992848	.016699	1.9072	1.365+00
26	4.642-01	3.403+05	3.976-01	12288.4	9.759+01	6.673-11	3.030+13	2.724+13	.994235	.038506	1.9101	1.398+00
27	6.813-01	3.606+05	5.520-01	12943.0	1.338+02	8.661-11	3.932+13	3.562+13	.995293	.096678	1.9087	1.412+00
28	1.000+00	3.833+05	7.776-01	13735.2	1.870+02	1.131-10	5.135+13	4.727+13	.995999	.239197	1.9057	1.413+00
29	1.468+00	4.088+05	1.109+00	14690.2	2.652+02	1.480-10	6.718+13	6.363+13	.996428	.497885	1.9008	1.407+00
30	2.154+00	4.376+05	1.601+00	15804.5	3.821+02	1.955-10	8.874+13	8.642+13	.996656	.762045	1.8897	1.385+00
31	3.162+00	4.701+05	2.339+00	17092.0	5.593+02	2.625-10	1.192+14	1.179+14	.996766	.911594	1.8739	1.348+00
32	4.642+00	5.063+05	3.451+00	18552.2	8.295+02	3.577-10	1.624+14	1.616+14	.996805	.969385	1.8570	1.315+00
33	6.813+00	5.458+05	5.110+00	20184.7	1.236+03	4.893-10	2.221+14	2.215+14	.996807	.989119	1.8495	1.306+00
34	1.000+01	5.883+05	7.544+00	22025.3	1.834+03	6.652-10	3.020+14	3.013+14	.996801	.995964	1.8475	1.315+00
35	1.468+01	6.336+05	1.106+01	24071.4	2.696+03	8.944-10	4.061+14	4.052+14	.996795	.998488	1.8549	1.350+00
36	2.154+01	6.819+05	1.605+01	26370.4	3.911+03	1.184-09	5.377+14	5.367+14	.996801	1.000086	1.8676	1.404+00
37	3.162+01	7.333+05	2.302+01	28933.7	5.594+03	1.544-09	7.008+14	6.998+14	.996817	1.005313	1.8845	1.487+00
38	4.642+01	7.878+05	3.258+01	31762.5	7.860+03	1.973-09	8.959+14	8.973+14	.996862	1.033976	1.9127	1.613+00
39	6.813+01	8.452+05	4.526+01	34950.3	1.078+04	2.445-09	1.110+15	1.127+15	.997011	1.166186	1.9510	1.821+00
40	1.000+02	9.048+05	6.131+01	38416.1	1.439+04	2.923-09	1.327+15	1.389+15	.997269	1.482951	1.9723	2.164+00

TEFF = 13000

LOG G = 3.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	IGN(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	1.039-04	8131.7	9.441-02	9.774-14	4.437+10	3.972+10	.994059	.000104	1.8074	3.133-01
2	4.642-05	4.007+03	1.490-04	8482.9	1.372-01	1.360-13	6.174+10	5.539+10	.996497	.000325	1.5896	3.133-01
3	6.813-05	8.012+03	2.163-04	8534.0	2.018-01	1.988-13	9.027+10	8.092+10	.995510	.000287	1.6089	3.223-01
4	1.000-04	1.211+04	3.136-04	8619.3	2.950-01	2.881-13	1.308+11	1.171+11	.994651	.000278	1.6141	3.331-01
5	1.468-04	1.609+04	4.512-04	8715.6	4.271-01	4.125-13	1.873+11	1.676+11	.993860	.000285	1.6144	3.463-01
6	2.154-04	2.003+04	6.450-04	8823.7	6.128-01	5.849-13	2.655+11	2.374+11	.993166	.000306	1.6118	3.622-01
7	3.162-04	2.592+04	9.158-04	8940.3	8.726-01	8.222-13	3.733+11	3.336+11	.992561	.000338	1.6095	3.816-01
8	4.642-04	2.778+04	1.292-03	9065.0	1.233+00	1.147-12	5.208+11	4.647+11	.990977	.000383	1.6034	4.043-01
9	6.813-04	3.161+04	1.811-03	9189.6	1.731+00	1.589-12	7.214+11	6.431+11	.990180	.000433	1.6017	4.325-01
10	1.000-03	3.540+04	2.519-03	9310.3	2.411+00	2.185-12	9.919+11	8.836+11	.989428	.000481	1.6092	4.673-01
11	1.468-03	3.914+04	3.475-03	9425.5	3.328+00	2.980-12	1.353+12	1.204+12	.988534	.000523	1.6254	5.099-01
12	2.154-03	4.282+04	4.756-03	9534.9	4.553+00	4.032-12	1.831+12	1.628+12	.987481	.000557	1.6498	5.619-01
13	3.162-03	4.645+04	6.453-03	9638.3	6.171+00	5.410-12	2.456+12	2.181+12	.986250	.000582	1.6820	6.251-01
14	4.642-03	5.001+04	8.682-03	9736.8	8.288+00	7.197-12	3.268+12	2.898+12	.984850	.000601	1.7215	7.014-01
15	6.813-03	5.351+04	1.159-02	9833.5	1.103+01	9.493-12	4.310+12	3.815+12	.983343	.000618	1.7638	7.921-01
16	1.000-02	5.697+04	1.535-02	9927.8	1.457+01	1.242-11	5.640+12	4.986+12	.981691	.000632	1.8093	9.001-01
17	1.468-02	6.039+04	2.020-02	10021.3	1.908+01	1.614-11	7.327+12	6.465+12	.979937	.000646	1.8584	1.028+00
18	2.154-02	6.377+04	2.642-02	10118.2	2.482+01	2.081-11	9.450+12	8.323+12	.978205	.000668	1.9089	1.176+00
19	3.162-02	6.715+04	3.440-02	10227.4	3.212+01	2.666-11	1.210+13	1.065+13	.976811	.000715	1.9608	1.346+00
20	4.642-02	7.055+04	4.465-02	10360.1	4.137+01	3.391-11	1.540+13	1.353+13	.976215	.000817	2.0107	1.534+00
21	6.813-02	7.402+04	5.791-02	10527.4	5.320+01	4.290-11	1.948+13	1.713+13	.976722	.001035	2.0560	1.733+00
22	1.000-01	7.761+04	7.525-02	10740.4	6.847+01	5.407-11	2.455+13	2.163+13	.978444	.001452	2.0947	1.932+00
23	1.468-01	8.140+04	9.828-02	11011.5	8.851+01	6.809-11	3.091+13	2.731+13	.981105	.002294	2.1252	2.119+00
24	2.154-01	8.546+04	1.294-01	11355.6	1.154+02	8.593-11	3.901+13	3.459+13	.984451	.004156	2.1465	2.275+00
25	3.162-01	8.991+04	1.726-01	11795.8	1.524+02	1.091-10	4.951+13	4.408+13	.987901	.008849	2.1563	2.378+00
26	4.642-01	9.486+04	2.339-01	12335.7	2.049+02	1.399-10	6.353+13	5.680+13	.990738	.020801	2.1589	2.438+00
27	6.813-01	1.004+05	3.226-01	12989.1	2.809+02	1.817-10	8.247+13	7.415+13	.992843	.053172	2.1553	2.454+00
28	1.000+00	1.067+05	4.532-01	13788.6	3.931+02	2.382-10	1.081+14	9.833+13	.994298	.142209	2.1461	2.424+00
29	1.468+00	1.137+05	6.478-01	14741.2	5.607+02	3.144-10	1.428+14	1.328+14	.995178	.341223	2.1350	2.385+00
30	2.154+00	1.217+05	9.388-01	15861.2	8.126+02	4.173-10	1.894+14	1.816+14	.995670	.620329	2.1216	2.337+00
31	3.162+00	1.307+05	1.375+00	17148.5	1.193+03	5.600-10	2.542+14	2.493+14	.995923	.838582	2.1065	2.287+00
32	4.642+00	1.407+05	2.029+00	18599.7	1.764+03	7.600-10	3.450+14	3.419+14	.996040	.940105	2.0910	2.241+00
33	6.813+00	1.517+05	3.005+00	20234.2	2.622+03	1.036-09	4.705+14	4.681+14	.996087	.978207	2.0794	2.212+00
34	1.000+01	1.635+05	4.444+00	22054.5	3.888+03	1.409-09	6.397+14	6.373+14	.996100	.991679	2.0766	2.225+00
35	1.468+01	1.762+05	6.524+00	24107.0	5.720+03	1.896-09	8.606+14	8.578+14	.996108	.996738	2.0822	2.275+00
36	2.154+01	1.897+05	9.483+00	26384.1	8.315+03	2.518-09	1.143+15	1.140+15	.996118	.998926	2.0951	2.370+00
37	3.162+01	2.040+05	1.361+01	28943.8	1.192+04	3.288-09	1.493+15	1.489+15	.996142	1.002037	2.1148	2.519+00
38	4.642+01	2.190+05	1.924+01	31769.6	1.679+04	4.217-09	1.915+15	1.913+15	.996178	1.016179	2.1417	2.741+00
39	6.813+01	2.348+05	2.672+01	34930.8	2.319+04	5.281-09	2.397+15	2.412+15	.996291	1.084697	2.1772	3.068+00
40	1.000+02	2.511+05	3.627+01	38402.2	3.127+04	6.406-09	2.908+15	2.991+15	.996549	1.304770	2.1948	3.640+00

TEFF = 13000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.392-05	8147.2	2.833-01	2.942-13	1.336+11	1.183+11	.983221	.000038	1.9869	3.471-01
2	4.642-05	1.199+03	1.342-04	8588.3	4.076-01	3.999-13	1.816+11	1.622+11	.991999	.000170	1.7049	3.489-01
3	6.813-05	2.413+03	1.937-04	8642.5	5.926-01	5.784-13	2.626+11	2.340+11	.989905	.000153	1.7326	3.684-01
4	1.000-04	3.637+03	2.776-04	8734.3	8.534-01	8.250-13	3.745+11	3.332+11	.988321	.000153	1.7446	3.911-01
5	1.468-04	4.815+03	3.932-04	8836.8	1.212+00	1.159-12	5.263+11	4.676+11	.986956	.000162	1.7443	4.178-01
6	2.154-04	5.970+03	5.514-04	8947.9	1.704+00	1.610-12	7.308+11	6.487+11	.985798	.000178	1.7408	4.495-01
7	3.162-04	7.105+03	7.665-04	9060.6	2.372+00	2.216-12	1.006+12	8.905+11	.983323	.000196	1.7428	4.872-01
8	4.642-04	8.222+03	1.056-03	9173.9	3.273+00	3.021-12	1.371+12	1.212+12	.981994	.000217	1.7517	5.334-01
9	6.813-04	9.320+03	1.443-03	9285.1	4.472+00	4.082-12	1.853+12	1.636+12	.980625	.000237	1.7675	5.892-01
10	1.000-03	1.040+04	1.954-03	9391.8	6.059+00	5.470-12	2.483+12	2.189+12	.979054	.000256	1.7908	6.568-01
11	1.468-03	1.146+04	2.624-03	9493.4	8.134+00	7.272-12	3.301+12	2.904+12	.977239	.000271	1.8219	7.386-01
12	2.154-03	1.250+04	3.495-03	9590.8	1.083+01	9.592-12	4.355+12	3.823+12	.975188	.000284	1.8574	8.367-01
13	3.162-03	1.352+04	4.620-03	9684.6	1.431+01	1.256-11	5.702+12	4.995+12	.972892	.000294	1.8935	9.536-01
14	4.642-03	1.453+04	6.063-03	9770.2	1.875+01	1.634-11	7.419+12	6.480+12	.970102	.000298	1.9374	1.095+00
15	6.813-03	1.551+04	7.901-03	9851.0	2.439+01	2.112-11	9.588+12	8.346+12	.966910	.000298	1.9880	1.265+00
16	1.000-02	1.648+04	1.023-02	9931.6	3.152+01	2.711-11	1.231+13	1.068+13	.963534	.000298	2.0434	1.468+00
17	1.468-02	1.744+04	1.318-02	10017.7	4.048+01	3.458-11	1.570+13	1.357+13	.960317	.000304	2.1002	1.705+00
18	2.154-02	1.840+04	1.690-02	10112.4	5.176+01	4.386-11	1.991+13	1.716+13	.957487	.000318	2.1537	1.976+00
19	3.162-02	1.936+04	2.163-02	10222.7	6.598+01	5.535-11	2.513+13	2.162+13	.955567	.000348	2.2072	2.284+00
20	4.642-02	2.032+04	2.764-02	10358.9	8.398+01	6.954-11	3.157+13	2.715+13	.955243	.000407	2.2577	2.624+00
21	6.813-02	2.131+04	3.537-02	10530.6	1.069+02	8.703-11	3.951+13	3.404+13	.956954	.000520	2.3029	2.983+00
22	1.000-01	2.234+04	4.541-02	10747.9	1.366+02	1.087-10	4.936+13	4.270+13	.960720	.000737	2.3413	3.346+00
23	1.468-01	2.343+04	5.867-02	11024.0	1.755+02	1.358-10	6.165+13	5.365+13	.966270	.001206	2.3724	3.691+00
24	2.154-01	2.460+04	7.650-02	11372.6	2.275+02	1.702-10	7.725+13	6.767+13	.972771	.002212	2.3945	3.983+00
25	3.162-01	2.588+04	1.011-01	11809.9	2.990+02	2.146-10	9.745+13	8.596+13	.979216	.004656	2.4067	4.193+00
26	4.642-01	2.731+04	1.358-01	12352.3	4.001+02	2.737-10	1.243+14	1.103+14	.984733	.011140	2.4092	4.297+00
27	6.813-01	2.893+04	1.863-01	13016.6	5.469+02	3.540-10	1.607+14	1.436+14	.988880	.029591	2.4022	4.290+00
28	1.000+00	3.077+04	2.614-01	13817.5	7.657+02	4.650-10	2.111+14	1.902+14	.991656	.082763	2.3879	4.200+00
29	1.468+00	3.288+04	3.745-01	14771.7	1.097+03	6.177-10	2.804+14	2.569+14	.993359	.218498	2.3718	4.084+00
30	2.154+00	3.525+04	5.445-01	15896.1	1.595+03	8.238-10	3.740+14	3.524+14	.994336	.469587	2.3580	4.003+00
31	3.162+00	3.789+04	7.975-01	17174.1	2.337+03	1.103-09	5.006+14	4.852+14	.994853	.732041	2.3464	3.964+00
32	4.642+00	4.083+04	1.175+00	18626.7	3.449+03	1.488-09	6.754+14	6.655+14	.995125	.891285	2.3301	3.879+00
33	6.813+00	4.408+04	1.740+00	20256.2	5.118+03	2.023-09	9.184+14	9.113+14	.995255	.958795	2.3161	3.815+00
34	1.000+01	4.760+04	2.575+00	22067.9	7.585+03	2.749-09	1.248+15	1.242+15	.995312	.983927	2.3133	3.834+00
35	1.468+01	5.137+04	3.783+00	24124.0	1.115+04	3.696-09	1.678+15	1.671+15	.995349	.993608	2.3191	3.921+00
36	2.154+01	5.537+04	5.490+00	26396.2	1.619+04	4.901-09	2.225+15	2.216+15	.995378	.997387	2.3355	4.125+00
37	3.162+01	5.958+04	7.856+00	28955.5	2.315+04	6.386-09	2.899+15	2.889+15	.995421	1.000143	2.3561	4.393+00
38	4.642+01	6.403+04	1.109+01	31781.1	3.261+04	8.192-09	3.719+15	3.710+15	.995472	1.008051	2.3820	4.764+00
39	6.813+01	6.873+04	1.541+01	34946.0	4.521+04	1.031-08	4.682+15	4.690+15	.995564	1.045830	2.4130	5.283+00
40	1.000+02	7.363+04	2.104+01	38425.1	6.153+04	1.269-08	5.762+15	5.848+15	.995785	1.180690	2.4185	6.153+00

TEFF = 13000

LOG G = 4.0

TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(RCSS)	
1	0.000+00	0.000+00	8.493-05	8180.4	8.289-01	8.683-13	3.942+11	3.397+11	.956888	.000015	2.1766	4.148-01
2	4.642-05	3.168+02	1.144-04	8697.7	1.120+00	1.090-12	4.948+11	4.381+11	.982847	.000099	1.8534	4.185-01
3	6.813-05	6.490+02	1.602-04	8773.2	1.576+00	1.521-12	6.903+11	6.094+11	.980774	.000098	1.8521	4.516-01
4	1.000-04	1.634+03	2.278-04	8858.8	2.246+00	2.151-12	9.765+11	8.594+11	.977520	.000097	1.8685	4.964-01
5	1.468-04	1.387+03	3.173-04	8955.8	3.134+00	2.973-12	1.350+12	1.184+12	.974968	.000101	1.8825	5.482-01
6	2.154-04	1.728+03	4.359-04	9055.5	4.311+00	4.051-12	1.839+12	1.608+12	.971385	.000107	1.8984	6.085-01
7	3.162-04	2.059+03	5.921-04	9158.4	5.860+00	5.453-12	2.475+12	2.159+12	.968490	.000116	1.9177	6.809-01
8	4.642-04	2.383+03	7.961-04	9261.4	7.883+00	7.262-12	3.297+12	2.868+12	.966130	.000125	1.9416	7.676-01
9	6.813-04	2.699+03	1.061-03	9363.1	1.051+01	9.585-12	4.352+12	3.776+12	.963665	.000135	1.9675	8.708-01
10	1.000-03	3.010+03	1.403-03	9461.5	1.389+01	1.256-11	5.701+12	4.932+12	.960924	.000145	1.9935	9.935-01
11	1.468-03	3.315+03	1.840-03	9551.7	1.823+01	1.635-11	7.421+12	6.397+12	.957526	.000150	2.0267	1.142+00
12	2.154-03	3.614+03	2.398-03	9634.1	2.373+01	2.115-11	9.601+12	8.241+12	.953384	.000153	2.0677	1.321+00
13	3.162-03	3.907+03	3.103-03	9710.4	3.070+01	2.720-11	1.235+13	1.055+13	.948544	.000152	2.1150	1.536+00
14	4.642-03	4.195+03	3.991-03	9782.9	3.946+01	3.480-11	1.580+13	1.342+13	.943095	.000151	2.1674	1.792+00
15	6.813-03	4.479+03	5.106-03	9854.7	5.044+01	4.428-11	2.010+13	1.697+13	.937266	.000149	2.2236	2.098+00
16	1.000-02	4.759+03	6.504-03	9930.5	6.416+01	5.606-11	2.545+13	2.134+13	.931478	.000149	2.2825	2.457+00
17	1.468-02	5.037+03	8.256-03	10014.5	8.132+01	7.064-11	3.207+13	2.674+13	.926222	.000153	2.3404	2.874+00
18	2.154-02	5.315+03	1.046-02	10109.7	1.029+02	8.869-11	4.026+13	3.342+13	.921964	.000162	2.3944	3.348+00
19	3.162-02	5.594+03	1.324-02	10221.5	1.299+02	1.110-10	5.038+13	4.171+13	.919422	.000179	2.4458	3.881+00
20	4.642-02	5.879+03	1.677-02	10358.7	1.642+02	1.384-10	6.282+13	5.201+13	.919548	.000212	2.4954	4.476+00
21	6.813-02	6.171+03	2.129-02	10531.6	2.078+02	1.720-10	7.807+13	6.489+13	.923217	.000274	2.5417	5.118+00
22	1.000-01	6.475+03	2.712-02	10751.5	2.640+02	2.132-10	9.679+13	8.108+13	.930407	.000393	2.5825	5.783+00
23	1.468-01	6.796+03	3.476-02	11030.6	3.374+02	2.642-10	1.199+14	1.016+14	.940711	.000635	2.6160	6.423+00
24	2.154-01	7.142+03	4.496-02	11382.3	4.351+02	3.282-10	1.490+14	1.278+14	.952696	.001192	2.6406	6.979+00
25	3.162-01	7.522+03	5.897-02	11827.5	5.689+02	4.105-10	1.864+14	1.619+14	.964735	.002598	2.6533	7.359+00
26	4.642-01	7.949+03	7.871-02	12372.1	7.574+02	5.200-10	2.361+14	2.074+14	.974753	.006224	2.6570	7.574+00
27	6.813-01	8.433+03	1.074-01	13032.3	1.031+03	6.692-10	3.038+14	2.692+14	.982213	.016465	2.6492	7.565+00
28	1.000+00	8.987+03	1.500-01	13829.7	1.438+03	8.763-10	3.978+14	3.555+14	.987337	.046672	2.6351	7.393+00
29	1.468+00	9.623+03	2.144-01	14791.1	2.055+03	1.164-09	5.283+14	4.782+14	.990575	.133709	2.6167	7.138+00
30	2.154+00	1.035+04	3.122-01	15917.7	2.993+03	1.557-09	7.071+14	6.551+14	.992423	.330136	2.5989	6.939+00
31	3.162+00	1.115+04	4.580-01	17195.4	4.396+03	2.086-09	9.472+14	9.041+14	.993411	.600180	2.5871	6.884+00
32	4.642+00	1.204+04	6.746-01	18644.7	6.479+03	2.805-09	1.273+15	1.244+15	.993948	.817983	2.5718	6.777+00
33	6.813+00	1.303+04	9.977-01	20258.3	9.591+03	3.800-09	1.725+15	1.704+15	.994224	.926272	2.5600	6.681+00
34	1.000+01	1.410+04	1.473+00	22089.5	1.417+04	5.137-09	2.332+15	2.315+15	.994380	.971079	2.5590	6.752+00
35	1.468+01	1.524+04	2.155+00	24116.3	2.074+04	6.881-09	3.124+15	3.106+15	.994468	.988198	2.5668	6.972+00
36	2.154+01	1.646+04	3.117+00	26400.2	3.000+04	9.089-09	4.127+15	4.107+15	.994539	.994951	2.5825	7.302+00
37	3.162+01	1.774+04	4.453+00	28942.7	4.284+04	1.184-08	5.374+15	5.351+15	.994605	.998347	2.6025	7.782+00
38	4.642+01	1.910+04	6.280+00	31768.5	6.035+04	1.519-08	6.896+15	6.870+15	.994677	1.003346	2.6274	8.416+00
39	6.813+01	2.053+04	8.735+00	34919.8	8.382+04	1.917-08	8.705+15	8.692+15	.994763	1.024080	2.6566	9.275+00
40	1.000+02	2.202+04	1.195+01	38389.6	1.145+05	2.372-08	1.077+16	1.085+16	.994948	1.106913	2.6588	1.060+01

TEFF = 13000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	6.334-05	8245.8	1.984+00	2.103-12	9.550+11	7.888+11	.917265	.000008	2.2885	5.115-01
2	4.642-05	1.092+02	8.890-05	8791.0	2.788+00	2.704-12	1.228+12	1.070+12	.967260	.000058	1.9871	5.408-01
3	6.813-05	2.212+02	1.256-04	8855.8	3.944+00	3.810-12	1.730+12	1.497+12	.961099	.000055	2.0169	6.096-01
4	1.000-04	3.317+02	1.747-04	8945.9	5.492+00	5.264-12	2.390+12	2.057+12	.956033	.000055	2.0443	6.909-01
5	1.468-04	4.349+02	2.380-04	9039.0	7.489+00	7.125-12	3.235+12	2.767+12	.949985	.000058	2.0699	7.839-01
6	2.154-04	5.340+02	3.198-04	9135.2	1.006+01	9.492-12	4.309+12	3.670+12	.945959	.000062	2.0973	8.949-01
7	3.162-04	6.301+02	4.247-04	9237.5	1.337+01	1.249-11	5.671+12	4.813+12	.942679	.000068	2.1135	1.024+00
8	4.642-04	7.240+02	5.590-04	9333.6	1.760+01	1.630-11	7.402+12	6.256+12	.938745	.000073	2.1362	1.178+00
9	6.813-04	8.159+02	7.299-04	9423.7	2.298+01	2.113-11	9.594+12	8.069+12	.934142	.000077	2.1655	1.362+00
10	1.000-03	9.059+02	9.463-04	9507.1	2.979+01	2.723-11	1.236+13	1.034+13	.928618	.000080	2.2014	1.582+00
11	1.468-03	9.942+02	1.219-03	9583.8	3.836+01	3.490-11	1.584+13	1.315+13	.922041	.000081	2.2435	1.847+00
12	2.154-03	1.081+03	1.561-03	9654.9	4.913+01	4.453-11	2.022+13	1.665+13	.914440	.000080	2.2910	2.162+00
13	3.162-03	1.166+03	1.990-03	9722.1	6.260+01	5.658-11	2.569+13	2.095+13	.905908	.000079	2.3429	2.536+00
14	4.642-03	1.250+03	2.526-03	9788.8	7.943+01	7.163-11	3.252+13	2.625+13	.896755	.000078	2.3981	2.977+00
15	6.813-03	1.333+03	3.196-03	9856.9	1.004+02	9.037-11	4.103+13	3.278+13	.887303	.000077	2.4556	3.498+00
16	1.000-02	1.416+03	4.035-03	9931.6	1.267+02	1.136-10	5.159+13	4.081+13	.878498	.000078	2.5101	4.097+00
17	1.468-02	1.498+03	5.086-03	10013.5	1.596+02	1.425-10	6.471+13	5.071+13	.870468	.000081	2.5654	4.792+00
18	2.154-02	1.581+03	6.408-03	10105.3	2.008+02	1.784-10	8.097+13	6.297+13	.863775	.000085	2.6179	5.587+00
19	3.162-02	1.665+03	8.074-03	10215.7	2.528+02	2.225-10	1.010+14	7.821+13	.860045	.000095	2.6709	6.497+00
20	4.642-02	1.749+03	1.018-02	10353.3	3.184+02	2.763-10	1.254+14	9.724+13	.861001	.000113	2.7225	7.528+00
21	6.813-02	1.836+03	1.286-02	10528.1	4.015+02	3.416-10	1.551+14	1.211+14	.867274	.000147	2.7715	8.672+00
22	1.000-01	1.926+03	1.628-02	10749.1	5.077+02	4.206-10	1.910+14	1.512+14	.879375	.000210	2.8164	9.895+00
23	1.468-01	2.022+03	2.072-02	11030.6	6.451+02	5.163-10	2.344+14	1.893+14	.896994	.000342	2.8544	1.111+01
24	2.154-01	2.124+03	2.659-02	11384.5	8.264+02	6.342-10	2.879+14	2.379+14	.917942	.000635	2.8835	1.220+01
25	3.162-01	2.237+03	3.456-02	11828.4	1.072+03	7.837-10	3.558+14	3.009+14	.938964	.001386	2.9011	1.300+01
26	4.642-01	2.364+03	4.571-02	12377.0	1.416+03	9.803-10	4.451+14	3.837+14	.957150	.003384	2.9075	1.344+01
27	6.813-01	2.509+03	6.184-02	13044.8	1.913+03	1.248-09	5.666+14	4.958+14	.970911	.009156	2.9000	1.343+01
28	1.000+00	2.677+03	8.585-02	13844.4	2.653+03	1.623-09	7.367+14	6.521+14	.980194	.026429	2.8846	1.311+01
29	1.468+00	2.872+03	1.223-01	14804.1	3.778+03	2.148-09	9.754+14	8.736+14	.986074	.078678	2.8642	1.259+01
30	2.154+00	3.095+03	1.779-01	15930.0	5.499+03	2.881-09	1.308+15	1.193+15	.989470	.214554	2.8415	1.215+01
31	3.162+00	3.343+03	2.614-01	17199.5	8.080+03	3.869-09	1.757+15	1.647+15	.991296	.452170	2.8298	1.203+01
32	4.642+00	3.618+03	3.849-01	18660.0	1.190+04	5.183-09	2.353+15	2.270+15	.992341	.712106	2.8174	1.193+01
33	6.813+00	3.919+03	5.666-01	20262.2	1.753+04	6.970-09	3.165+15	3.106+15	.992889	.872954	2.8125	1.198+01
34	1.000+01	4.246+03	8.315-01	22096.5	2.574+04	9.346-09	4.243+15	4.198+15	.993226	.948728	2.8121	1.209+01
35	1.468+01	4.598+03	1.213+00	24119.1	3.755+04	1.247-08	5.662+15	5.619+15	.993415	.978826	2.8198	1.245+01
36	2.154+01	4.974+03	1.752+00	26413.3	5.425+04	1.644-08	7.464+15	7.419+15	.993556	.990840	2.8345	1.300+01
37	3.162+01	5.372+03	2.503+00	28950.1	7.747+04	2.141-08	9.720+15	9.667+15	.993665	.996079	2.8545	1.385+01
38	4.642+01	5.794+03	3.530+00	31786.4	1.092+05	2.747-08	1.247+16	1.241+16	.993772	1.000358	2.8781	1.495+01
39	6.813+01	6.240+03	4.914+00	34930.4	1.519+05	3.475-08	1.577+16	1.572+16	.993883	1.012817	2.9068	1.644+01
40	1.000+02	6.710+03	6.738+00	38424.4	2.081+05	4.320-08	1.961+16	1.965+16	.994048	1.063033	2.9072	1.855+01



TEFF = 14000

LOG G = 2.0

TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(ROSS)	
1	0.000+00	0.000+00	1.125-04	9196.7	8.714-03	7.918-15	3.595+09	3.265+09	.999610	.082319	1.3475	2.817-01
2	4.642-05	5.585+04	1.646-04	9360.5	1.277-02	1.139-14	5.171+09	4.706+09	.999580	.099701	1.3424	2.826-01
3	6.813-05	1.112+05	2.413-04	9343.9	1.874-02	1.677-14	7.612+09	6.902+09	.999519	.067078	1.3505	2.830-01
4	1.000-04	1.664+05	3.538-04	9361.9	2.745-02	2.453-14	1.114+10	1.008+10	.999452	.049729	1.3594	2.839-01
5	1.468-04	2.217+05	5.181-04	9367.8	4.008-02	3.584-14	1.627+10	1.470+10	.999365	.035291	1.3724	2.854-01
6	2.154-04	2.770+05	7.578-04	9384.7	5.833-02	5.209-14	2.365+10	2.134+10	.999261	.025833	1.3880	2.875-01
7	3.162-04	3.325+05	1.107-03	9417.6	8.457-02	7.531-14	3.419+10	3.082+10	.999141	.019945	1.4047	2.902-01
8	4.642-04	3.885+05	1.613-03	9481.1	1.222-01	1.082-13	4.911+10	4.426+10	.999015	.017052	1.4182	2.936-01
9	6.813-04	4.451+05	2.348-03	9572.4	1.763-01	1.545-13	7.016+10	6.321+10	.998892	.016103	1.4273	2.977-01
10	1.000-03	5.025+05	3.409-03	9681.9	2.538-01	2.200-13	9.990+10	8.999+10	.998768	.016080	1.4343	3.028-01
11	1.468-03	5.607+05	4.938-03	9809.4	3.649-01	3.123-13	1.418+11	1.277+11	.998647	.016930	1.4397	3.089-01
12	2.154-03	6.196+05	7.133-03	9951.5	5.236-01	4.417-13	2.005+11	1.806+11	.998529	.018500	1.4445	3.166-01
13	3.162-03	6.792+05	1.027-02	10109.2	7.494-01	6.223-13	2.825+11	2.545+11	.998418	.020968	1.4485	3.261-01
14	4.642-03	7.394+05	1.472-02	10268.6	1.070+00	8.739-13	3.967+11	3.575+11	.998297	.023621	1.4531	3.378-01
15	6.813-03	8.001+05	2.101-02	10421.8	1.517+00	1.222-12	5.549+11	5.001+11	.998158	.025923	1.4613	3.525-01
16	1.000-02	8.610+05	2.981-02	10561.2	2.139+00	1.700-12	7.719+11	6.957+11	.997990	.027246	1.4745	3.711-01
17	1.468-02	9.219+05	4.204-02	10688.6	2.989+00	2.347-12	1.066+12	9.602+11	.997792	.027724	1.4933	3.941-01
18	2.154-02	9.830+05	5.885-02	10809.0	4.132+00	3.209-12	1.457+12	1.312+12	.997570	.027783	1.5177	4.219-01
19	3.162-02	1.044+06	8.183-02	10931.1	5.646+00	4.335-12	1.968+12	1.773+12	.997341	.028110	1.5468	4.546-01
20	4.642-02	1.107+06	1.131-01	11065.1	7.625+00	5.784-12	2.626+12	2.365+12	.997129	.029454	1.5789	4.916-01
21	6.813-02	1.170+06	1.554-01	11225.6	1.019+01	7.618-12	3.459+12	3.116+12	.996972	.033034	1.6114	5.312-01
22	1.000-01	1.236+06	2.132-01	11431.9	1.351+01	9.916-12	4.502+12	4.059+12	.996907	.040953	1.6419	5.711-01
23	1.468-01	1.306+06	2.923-01	11697.8	1.784+01	1.278-11	5.804+12	5.242+12	.996935	.056460	1.6690	6.092-01
24	2.154-01	1.382+06	4.019-01	12045.2	2.354+01	1.636-11	7.428+12	6.734+12	.997064	.089592	1.6900	6.410-01
25	3.162-01	1.465+06	5.560-01	12499.8	3.129+01	2.086-11	9.471+12	8.656+12	.997247	.161260	1.7038	6.651-01
26	4.642-01	1.558+06	7.745-01	13070.6	4.191+01	2.654-11	1.205+13	1.118+13	.997419	.300758	1.7162	6.869-01
27	6.813-01	1.661+06	1.086+00	13772.2	5.667+01	3.367-11	1.529+13	1.452+13	.997554	.519736	1.7252	7.040-01
28	1.000+00	1.780+06	1.537+00	14636.6	7.769+01	4.291-11	1.948+13	1.897+13	.997646	.754998	1.7271	7.094-01
29	1.468+00	1.915+06	2.200+00	15680.1	1.089+02	5.571-11	2.529+13	2.502+13	.997697	.904685	1.7201	7.010-01
30	2.154+00	2.068+06	3.187+00	16894.8	1.563+02	7.397-11	3.358+13	3.343+13	.997713	.967129	1.7115	6.910-01
31	3.162+00	2.239+06	4.654+00	18304.3	2.282+02	9.958-11	4.521+13	4.511+13	.997710	.989046	1.7038	6.844-01
32	4.642+00	2.424+06	6.813+00	19886.4	3.353+02	1.346-10	6.113+13	6.103+13	.997696	.996186	1.7007	6.867-01
33	6.813+00	2.625+06	9.961+00	21670.8	4.923+02	1.814-10	8.234+13	8.223+13	.997682	.998621	1.7000	6.935-01
34	1.000+01	2.841+06	1.450+01	23659.2	7.167+02	2.418-10	1.098+14	1.096+14	.997674	.999659	1.7072	7.116-01
35	1.468+01	3.073+06	2.095+01	25887.6	1.028+03	3.171-10	1.440+14	1.438+14	.997677	1.001558	1.7194	7.388-01
36	2.154+01	3.323+06	3.001+01	28371.0	1.451+03	4.078-10	1.852+14	1.852+14	.997696	1.013215	1.7357	7.779-01
37	3.162+01	3.595+06	4.249+01	31139.5	2.002+03	5.111-10	2.321+14	2.337+14	.997758	1.081655	1.7591	8.377-01
38	4.642+01	3.891+06	5.917+01	34215.2	2.673+03	6.135-10	2.785+14	2.877+14	.997934	1.339288	1.7943	9.368-01
39	6.813+01	4.223+06	8.102+01	37661.3	3.450+03	7.057-10	3.204+14	3.434+14	.998142	1.720808	1.8224	1.044+00
40	1.000+02	4.612+06	1.106+02	41430.0	4.473+03	8.250-10	3.746+14	4.092+14	.998265	1.938774	1.8086	1.106+00

TEFF = 14000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.103-04	9040.7	3.205-02	2.973-14	1.350+10	1.216+10	.999292	.013600	1.4071	2.859-01
2	4.642-05	1.466+04	1.619-04	9163.7	4.707-02	4.308-14	1.956+10	1.763+10	.999223	.014643	1.4046	2.875-01
3	6.813-05	2.902+04	2.370-04	9132.1	6.884-02	6.323-14	2.871+10	2.585+10	.999032	.009078	1.4384	2.909-01
4	1.000-04	4.326+04	3.458-04	9163.7	1.002-01	9.177-14	4.166+10	3.750+10	.998833	.006687	1.4663	2.948-01
5	1.468-04	5.749+04	5.031-04	9214.1	1.452-01	1.324-13	6.009+10	5.406+10	.998615	.005694	1.4877	2.996-01
6	2.154-04	7.176+04	7.301-04	9284.4	2.100-01	1.899-13	8.621+10	7.754+10	.998382	.005055	1.5053	3.055-01
7	3.162-04	8.609+04	1.056-03	9375.9	3.025-01	2.710-13	1.230+11	1.106+11	.998152	.004835	1.5185	3.126-01
8	4.642-04	1.005+05	1.523-03	9484.4	4.344-01	3.849-13	1.747+11	1.571+11	.997929	.004900	1.5285	3.214-01
9	6.813-04	1.150+05	2.187-03	9608.3	6.218-01	5.438-13	2.469+11	2.219+11	.997719	.005207	1.5367	3.321-01
10	1.000-03	1.295+05	3.127-03	9746.2	8.866-01	7.645-13	3.471+11	3.119+11	.997525	.005756	1.5437	3.453-01
11	1.468-03	1.441+05	4.451-03	9897.4	1.259+00	1.069-12	4.852+11	4.360+11	.997352	.006582	1.5495	3.611-01
12	2.154-03	1.588+05	6.302-03	10052.8	1.778+00	1.486-12	6.747+11	6.063+11	.997177	.007562	1.5566	3.806-01
13	3.162-03	1.734+05	8.868-03	10202.0	2.496+00	2.056-12	9.336+11	8.388+11	.996967	.008453	1.5657	4.044-01
14	4.642-03	1.880+05	1.239-02	10335.2	3.479+00	2.829-12	1.285+12	1.154+12	.996690	.008978	1.5822	4.343-01
15	6.813-03	2.024+05	1.719-02	10454.7	4.806+00	3.865-12	1.755+12	1.575+12	.996348	.009174	1.6063	4.713-01
16	1.000-02	2.167+05	2.363-02	10564.1	6.575+00	5.233-12	2.376+12	2.133+12	.995942	.009140	1.6375	5.164-01
17	1.468-02	2.309+05	3.223-02	10667.5	8.904+00	7.019-12	3.187+12	2.859+12	.995482	.008993	1.6753	5.708-01
18	2.154-02	2.449+05	4.362-02	10773.8	1.193+01	9.319-12	4.231+12	3.794+12	.995008	.008961	1.7170	6.343-01
19	3.162-02	2.589+05	5.862-02	10888.4	1.586+01	1.225-11	5.561+12	4.984+12	.994567	.009220	1.7617	7.070-01
20	4.642-02	2.730+05	7.838-02	11024.5	2.090+01	1.594-11	7.238+12	6.487+12	.994225	.009999	1.8071	7.877-01
21	6.813-02	2.874+05	1.045-01	11195.7	2.739+01	2.057-11	9.340+12	8.370+12	.994075	.011787	1.8499	8.726-01
22	1.000-01	3.023+05	1.392-01	11416.4	3.581+01	2.637-11	1.197+13	1.073+13	.994168	.015438	1.8874	9.567-01
23	1.468-01	3.179+05	1.861-01	11702.3	4.686+01	3.367-11	1.528+13	1.372+13	.994480	.022613	1.9185	1.035+00
24	2.154-01	3.348+05	2.503-01	12071.1	6.169+01	4.293-11	1.949+13	1.753+13	.994993	.038357	1.9402	1.098+00
25	3.162-01	3.532+05	3.401-01	12540.7	8.213+01	5.490-11	2.492+13	2.253+13	.995572	.073802	1.9530	1.142+00
26	4.642-01	3.737+05	4.678-01	13134.3	1.110+02	7.048-11	3.200+13	2.919+13	.996098	.155560	1.9607	1.172+00
27	6.813-01	3.965+05	6.513-01	13863.1	1.521+02	9.076-11	4.120+13	3.830+13	.996494	.323162	1.9646	1.191+00
28	1.000+00	4.222+05	9.172-01	14736.3	2.116+02	1.172-10	5.323+13	5.081+13	.996751	.569402	1.9656	1.203+00
29	1.468+00	4.513+05	1.308+00	15787.1	2.995+02	1.531-10	6.949+13	6.794+13	.996906	.799543	1.9575	1.189+00
30	2.154+00	4.843+05	1.892+00	17004.9	4.319+02	2.037-10	9.246+13	9.156+13	.996979	.923605	1.9440	1.164+00
31	3.162+00	5.212+05	2.768+00	18401.2	6.332+02	2.752-10	1.249+14	1.244+14	.997003	.972843	1.9301	1.141+00
32	4.642+00	5.616+05	4.071+00	19976.0	9.357+02	3.743-10	1.699+14	1.694+14	.996999	.990192	1.9200	1.133+00
33	6.813+00	6.053+05	5.981+00	21733.5	1.381+03	5.077-10	2.305+14	2.299+14	.996985	.996262	1.9181	1.143+00
34	1.000+01	6.519+05	8.737+00	23714.6	2.023+03	6.813-10	3.093+14	3.087+14	.996976	.998588	1.9243	1.171+00
35	1.468+01	7.017+05	1.265+01	25921.5	2.928+03	9.021-10	4.095+14	4.088+14	.996974	1.000010	1.9359	1.218+00
36	2.154+01	7.547+05	1.814+01	28393.2	4.180+03	1.175-09	5.336+14	5.328+14	.996987	1.004469	1.9533	1.285+00
37	3.162+01	8.113+05	2.570+01	31165.4	5.873+03	1.503-09	6.823+14	6.832+14	.997026	1.029842	1.9756	1.385+00
38	4.642+01	8.712+05	3.579+01	34205.1	8.071+03	1.871-09	8.495+14	8.604+14	.997147	1.145364	2.0141	1.551+00
39	6.813+01	9.341+05	4.867+01	37667.0	1.073+04	2.224-09	1.010+15	1.055+15	.997405	1.466528	2.0642	1.820+00
40	1.000+02	1.002+06	6.507+01	41417.1	1.400+04	2.602-09	1.181+15	1.272+15	.997625	1.785419	2.0693	2.068+00

TEFF = 14000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.066-04	8920.3	1.027-01	9.659-14	4.385+10	3.946+10	.999079	.002704	1.5535	2.990-01
2	4.642-05	4.259+03	1.548-04	9090.3	1.491-01	1.378-13	6.257+10	5.626+10	.998368	.003511	1.5276	3.021-01
3	6.813-05	8.462+03	2.254-04	9105.9	2.172-01	2.004-13	9.097+10	8.176+10	.997927	.002584	1.5678	3.098-01
4	1.000-04	1.269+04	3.268-04	9171.1	3.148-01	2.884-13	1.310+11	1.176+11	.997515	.002241	1.5944	3.188-01
5	1.468-04	1.686+04	4.710-04	9246.7	4.532-01	4.119-13	1.870+11	1.679+11	.997074	.002048	1.6177	3.299-01
6	2.154-04	2.100+04	6.748-04	9342.6	6.484-01	5.836-13	2.649+11	2.378+11	.996655	.002011	1.6358	3.435-01
7	3.162-04	2.513+04	9.613-04	9454.2	9.223-01	8.205-13	3.725+11	3.342+11	.996269	.002087	1.6507	3.598-01
8	4.642-04	2.925+04	1.362-03	9585.9	1.305+00	1.145-12	5.197+11	4.661+11	.995960	.002312	1.6583	3.790-01
9	6.813-04	3.336+04	1.917-03	9724.8	1.834+00	1.587-12	7.205+11	6.461+11	.995667	.002605	1.6671	4.023-01
10	1.000-03	3.745+04	2.682-03	9866.1	2.563+00	2.186-12	9.924+11	8.897+11	.995368	.002940	1.6798	4.307-01
11	1.468-03	4.152+04	3.725-03	10005.8	3.556+00	2.990-12	1.358+12	1.217+12	.995043	.003288	1.6973	4.652-01
12	2.154-03	4.556+04	5.138-03	10145.9	4.897+00	4.062-12	1.844+12	1.652+12	.994700	.003660	1.7102	5.061-01
13	3.162-03	4.956+04	7.033-03	10268.5	6.693+00	5.487-12	2.491+12	2.230+12	.994217	.003862	1.7323	5.569-01
14	4.642-03	5.351+04	9.547-03	10378.1	9.065+00	7.356-12	3.340+12	2.988+12	.993599	.003916	1.7638	6.193-01
15	6.813-03	5.740+04	1.285-02	10479.4	1.217+01	9.782-12	4.441+12	3.972+12	.992885	.003907	1.7999	6.943-01
16	1.000-02	6.122+04	1.716-02	10572.0	1.619+01	1.290-11	5.858+12	5.234+12	.992047	.003825	1.8435	7.849-01
17	1.468-02	6.498+04	2.273-02	10662.4	2.135+01	1.688-11	7.661+12	6.840+12	.991119	.003733	1.8938	8.933-01
18	2.154-02	6.871+04	2.990-02	10759.7	2.792+01	2.188-11	9.933+12	8.859+12	.990208	.003724	1.9474	1.019+00
19	3.162-02	7.242+04	3.913-02	10871.6	3.627+01	2.814-11	1.277+13	1.138+13	.989448	.003886	2.0012	1.162+00
20	4.642-02	7.615+04	5.104-02	11012.2	4.691+01	3.593-11	1.631+13	1.453+13	.989012	.004347	2.0520	1.317+00
21	6.813-02	7.997+04	6.655-02	11190.9	6.057+01	4.565-11	2.072+13	1.846+13	.989018	.005308	2.0978	1.477+00
22	1.000-01	8.394+04	8.697-02	11422.0	7.830+01	5.780-11	2.624+13	2.340+13	.989537	.007219	2.1364	1.635+00
23	1.468-01	8.812+04	1.143-01	11718.3	1.017+02	7.317-11	3.322+13	2.966+13	.990456	.010967	2.1677	1.781+00
24	2.154-01	9.263+04	1.515-01	12102.9	1.333+02	9.278-11	4.212+13	3.770+13	.991747	.019451	2.1884	1.893+00
25	3.162-01	9.759+04	2.036-01	12589.5	1.773+02	1.184-10	5.374+13	4.826+13	.993093	.039280	2.1997	1.968+00
26	4.642-01	1.031+05	2.778-01	13190.3	2.397+02	1.523-10	6.915+13	6.250+13	.994229	.086720	2.2038	2.011+00
27	6.813-01	1.093+05	3.853-01	13921.0	3.300+02	1.975-10	8.965+13	8.208+13	.995074	.196007	2.2026	2.027+00
28	1.000+00	1.162+05	5.425-01	14804.2	4.622+02	2.572-10	1.168+14	1.094+14	.995644	.404811	2.1985	2.025+00
29	1.468+00	1.241+05	7.748-01	15853.9	6.583+02	3.374-10	1.532+14	1.476+14	.995989	.666093	2.1892	2.001+00
30	2.154+00	1.330+05	1.122+00	17075.2	9.521+02	4.488-10	2.037+14	2.003+14	.996176	.856373	2.1751	1.961+00
31	3.162+00	1.429+05	1.641+00	18467.1	1.395+03	6.052-10	2.748+14	2.726+14	.996263	.945564	2.1599	1.925+00
32	4.642+00	1.538+05	2.413+00	20031.8	2.057+03	8.213-10	3.729+14	3.712+14	.996293	.979666	2.1491	1.910+00
33	6.813+00	1.656+05	3.548+00	21784.5	3.033+03	1.113-09	5.053+14	5.035+14	.996297	.992117	2.1440	1.921+00
34	1.000+01	1.783+05	5.188+00	23745.8	4.444+03	1.495-09	6.789+14	6.769+14	.996294	.996837	2.1498	1.967+00
35	1.468+01	1.918+05	7.523+00	25954.8	6.445+03	1.984-09	9.008+14	8.983+14	.996300	.998920	2.1606	2.042+00
36	2.154+01	2.061+05	1.079+01	28411.3	9.232+03	2.596-09	1.178+15	1.176+15	.996314	1.001561	2.1787	2.158+00
37	3.162+01	2.213+05	1.528+01	31180.5	1.303+04	3.335-09	1.514+15	1.512+15	.996347	1.013594	2.2023	2.335+00
38	4.642+01	2.373+05	2.129+01	34211.6	1.803+04	4.197-09	1.905+15	1.915+15	.996435	1.071305	2.2381	2.601+00
39	6.813+01	2.539+05	2.898+01	37655.1	2.432+04	5.087-09	2.309+15	2.370+15	.996680	1.280077	2.2885	3.053+00
40	1.000+02	2.711+05	3.853+01	41394.7	3.196+04	5.988-09	2.719+15	2.882+15	.996979	1.617292	2.3073	3.639+00

TEFF = 14000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.848-05	8874.3	3.050-01	2.890-13	1.312+11	1.178+11	.996941	.000751	1.7442	3.264-01
2	4.642-05	1.288+03	1.416-04	9133.2	4.391-01	4.042-13	1.835+11	1.647+11	.996601	.001391	1.6675	3.322-01
3	6.813-05	2.566+03	2.045-04	9169.1	6.351-01	5.826-13	2.645+11	2.372+11	.995688	.001108	1.7143	3.491-01
4	1.000-04	3.849+03	2.933-04	9248.1	9.112-01	8.291-13	3.764+11	3.372+11	.994899	.001024	1.7466	3.687-01
5	1.468-04	5.097+03	4.163-04	9346.1	1.293+00	1.165-12	5.288+11	4.734+11	.994193	.001024	1.7665	3.916-01
6	2.154-04	6.326+03	5.856-04	9458.3	1.818+00	1.619-12	7.349+11	6.576+11	.993566	.001077	1.7825	4.190-01
7	3.162-04	7.540+03	8.169-04	9579.3	2.535+00	2.229-12	1.012+12	9.050+11	.992994	.001168	1.7992	4.518-01
8	4.642-04	8.740+03	1.130-03	9706.4	3.506+00	3.044-12	1.382+12	1.235+12	.992459	.001288	1.8178	4.910-01
9	6.813-04	9.927+03	1.552-03	9837.3	4.812+00	4.123-12	1.872+12	1.672+12	.991947	.001436	1.8390	5.377-01
10	1.000-03	1.110+04	2.115-03	9967.1	6.552+00	5.541-12	2.516+12	2.246+12	.991401	.001590	1.8651	5.940-01
11	1.468-03	1.226+04	2.861-03	10099.5	8.854+00	7.392-12	3.356+12	2.994+12	.990871	.001771	1.8827	6.596-01
12	2.154-03	1.341+04	3.842-03	10219.8	1.189+01	9.806-12	4.452+12	3.970+12	.990148	.001895	1.9010	7.387-01
13	3.162-03	1.455+04	5.121-03	10322.5	1.583+01	1.293-11	5.872+12	5.230+12	.989139	.001928	1.9303	8.364-01
14	4.642-03	1.566+04	6.770-03	10411.0	2.089+01	1.694-11	7.691+12	6.842+12	.987839	.001888	1.9718	9.569-01
15	6.813-03	1.675+04	8.877-03	10491.4	2.734+01	2.202-11	9.997+12	8.879+12	.986296	.001814	2.0217	1.103+00
16	1.000-02	1.781+04	1.155-02	10569.7	3.551+01	2.841-11	1.290+13	1.143+13	.984599	.001744	2.0770	1.277+00
17	1.468-02	1.886+04	1.494-02	10652.6	4.579+01	3.638-11	1.652+13	1.461+13	.982869	.001703	2.1351	1.480+00
18	2.154-02	1.991+04	1.923-02	10747.6	5.872+01	4.628-11	2.101+13	1.856+13	.981317	.001723	2.1933	1.715+00
19	3.162-02	2.095+04	2.468-02	10862.9	7.506+01	5.855-11	2.658+13	2.347+13	.980177	.001837	2.2493	1.976+00
20	4.642-02	2.201+04	3.166-02	11007.8	9.578+01	7.375-11	3.348+13	2.955+13	.979721	.002102	2.3011	2.258+00
21	6.813-02	2.310+04	4.066-02	11193.8	1.223+02	9.263-11	4.205+13	3.713+13	.980171	.002636	2.3468	2.550+00
22	1.000-01	2.423+04	5.246-02	11432.2	1.569+02	1.162-10	5.277+13	4.666+13	.981561	.003679	2.3855	2.836+00
23	1.468-01	2.544+04	6.819-02	11736.9	2.026+02	1.461-10	6.632+13	5.877+13	.983744	.005793	2.4159	3.094+00
24	2.154-01	2.674+04	8.959-02	12125.1	2.646+02	1.843-10	8.369+13	7.441+13	.986389	.010422	2.4368	3.300+00
25	3.162-01	2.817+04	1.194-01	12613.9	3.508+02	2.344-10	1.064+14	9.500+13	.989028	.021336	2.4481	3.433+00
26	4.642-01	2.977+04	1.621-01	13221.1	4.737+02	3.013-10	1.368+14	1.227+14	.991287	.048776	2.4490	3.485+00
27	6.813-01	3.158+04	2.245-01	13961.5	6.536+02	3.919-10	1.779+14	1.611+14	.992973	.118007	2.4428	3.473+00
28	1.000+00	3.363+04	3.168-01	14846.5	9.201+02	5.143-10	2.335+14	2.153+14	.994092	.269476	2.4338	3.437+00
29	1.468+00	3.594+04	4.538-01	15907.0	1.317+03	6.778-10	3.077+14	2.916+14	.994797	.520166	2.4235	3.394+00
30	2.154+00	3.853+04	6.567-01	17124.3	1.905+03	8.999-10	4.085+14	3.972+14	.995189	.759961	2.4138	3.372+00
31	3.162+00	4.141+04	9.583-01	18512.9	2.782+03	1.207-09	5.478+14	5.404+14	.995399	.900991	2.3979	3.314+00
32	4.642+00	4.460+04	1.408+00	20073.5	4.094+03	1.633-09	7.412+14	7.358+14	.995497	.961525	2.3841	3.272+00
33	6.813+00	4.808+04	2.071+00	21816.5	6.031+03	2.210-09	1.003+15	9.984+14	.995537	.984737	2.3790	3.290+00
34	1.000+01	5.180+04	3.030+00	23774.1	8.832+03	2.969-09	1.348+15	1.342+15	.995557	.993750	2.3836	3.365+00
35	1.468+01	5.577+04	4.391+00	25982.6	1.280+04	3.936-09	1.787+15	1.781+15	.995579	.997438	2.3967	3.514+00
36	2.154+01	5.995+04	6.281+00	28424.7	1.830+04	5.142-09	2.334+15	2.326+15	.995605	.999885	2.4179	3.748+00
37	3.162+01	6.437+04	8.868+00	31192.6	2.579+04	6.600-09	2.996+15	2.989+15	.995654	1.006564	2.4416	4.043+00
38	4.642+01	6.904+04	1.235+01	34218.8	3.579+04	8.335-09	3.784+15	3.788+15	.995726	1.038675	2.4731	4.471+00
39	6.813+01	7.394+04	1.687+01	37666.5	4.870+04	1.025-08	4.651+15	4.715+15	.995931	1.163620	2.5150	5.152+00
40	1.000+02	7.899+04	2.253+01	41411.6	6.469+04	1.221-08	5.544+15	5.781+15	.996278	1.456226	2.5334	6.250+00

TEFF = 14000

LOG G = 4.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	8.609-05	8854.5	8.504-01	8.095-13	3.675+11	3.280+11	.991198	.000252	1.9736	3.843-01
2	4.642-05	3.805+02	1.209-04	9220.2	1.195+00	1.092-12	4.957+11	4.433+11	.993253	.000677	1.8273	3.921-01
3	6.813-05	7.628+02	1.723-04	9279.7	1.706+00	1.549-12	7.032+11	6.279+11	.991777	.000612	1.8659	4.240-01
4	1.000-04	1.161+03	2.443-04	9365.9	2.420+00	2.179-12	9.894+11	8.822+11	.990384	.000584	1.9008	4.631-01
5	1.468-04	1.535+03	3.405-04	9464.6	3.375+00	3.009-12	1.366+12	1.217+12	.989131	.000588	1.9316	5.086-01
6	2.154-04	1.899+03	4.686-04	9572.1	4.645+00	4.097-12	1.860+12	1.654+12	.988015	.000616	1.9610	5.620-01
7	3.162-04	2.255+03	6.383-04	9687.9	6.326+00	5.516-12	2.504+12	2.226+12	.987038	.000665	1.9898	6.248-01
8	4.642-04	2.605+03	8.616-04	9809.1	8.536+00	7.354-12	3.339+12	2.964+12	.986160	.000732	2.0198	6.989-01
9	6.813-04	2.949+03	1.154-03	9935.0	1.143+01	9.724-12	4.415+12	3.917+12	.985374	.000816	2.0450	7.856-01
10	1.000-03	3.290+03	1.535-03	10061.3	1.519+01	1.277-11	5.798+12	5.140+12	.984576	.000919	2.0578	8.867-01
11	1.468-03	3.627+03	2.028-03	10173.0	2.007+01	1.669-11	7.579+12	6.711+12	.983355	.000975	2.0769	1.010+00
12	2.154-03	3.958+03	2.659-03	10266.3	2.631+01	2.170-11	9.854+12	8.709+12	.981626	.000981	2.1103	1.163+00
13	3.162-03	4.283+03	3.462-03	10348.0	3.421+01	2.804-11	1.273+13	1.123+13	.979484	.000961	2.1540	1.349+00
14	4.642-03	4.601+03	4.473-03	10421.7	4.418+01	3.599-11	1.634+13	1.437+13	.976932	.000924	2.2056	1.573+00
15	6.813-03	4.913+03	5.745-03	10492.6	5.668+01	4.591-11	2.084+13	1.828+13	.974112	.000879	2.2619	1.840+00
16	1.000-02	5.220+03	7.338-03	10565.8	7.229+01	5.824-11	2.644+13	2.312+13	.971113	.000848	2.3212	2.157+00
17	1.468-02	5.525+03	9.335-03	10647.3	9.182+01	7.350-11	3.337+13	2.909+13	.968214	.000839	2.3812	2.522+00
18	2.154-02	5.829+03	1.185-02	10742.8	1.163+02	9.237-11	4.194+13	3.646+13	.965754	.000861	2.4391	2.938+00
19	3.162-02	6.136+03	1.502-02	10860.4	1.471+02	1.157-10	5.251+13	4.558+13	.964175	.000944	2.4943	3.399+00
20	4.642-02	6.448+03	1.907-02	11008.5	1.862+02	1.444-10	6.557+13	5.692+13	.963883	.001102	2.5459	3.900+00
21	6.813-02	6.770+03	2.427-02	11197.4	2.363+02	1.801-10	8.177+13	7.106+13	.965149	.001402	2.5922	4.423+00
22	1.000-01	7.107+03	3.106-02	11440.0	3.015+02	2.245-10	1.019+14	8.887+13	.968089	.001985	2.6315	4.937+00
23	1.468-01	7.465+03	4.007-02	11748.7	3.875+02	2.806-10	1.274+14	1.116+14	.972250	.003144	2.6633	5.412+00
24	2.154-01	7.853+03	5.230-02	12143.4	5.040+02	3.522-10	1.599+14	1.408+14	.977340	.005749	2.6844	5.779+00
25	3.162-01	8.282+03	6.935-02	12638.6	6.661+02	4.460-10	2.025+14	1.794+14	.982342	.011962	2.6951	6.013+00
26	4.642-01	8.764+03	9.374-02	13246.7	8.980+02	5.721-10	2.597+14	2.314+14	.986512	.027578	2.6940	6.090+00
27	6.813-01	9.310+03	1.295-01	13984.6	1.238+03	7.443-10	3.379+14	3.033+14	.989627	.068087	2.6860	6.056+00
28	1.000+00	9.928+03	1.825-01	14871.8	1.743+03	9.791-10	4.445+14	4.044+14	.991752	.168700	2.6758	5.966+00
29	1.468+00	1.063+04	2.616-01	15933.7	2.497+03	1.295-09	5.877+14	5.474+14	.993104	.373843	2.6640	5.869+00
30	2.154+00	1.141+04	3.788-01	17152.2	3.615+03	1.717-09	7.797+14	7.473+14	.993873	.635042	2.6540	5.847+00
31	3.162+00	1.228+04	5.522-01	18535.1	5.273+03	2.294-09	1.042+15	1.020+15	.994300	.832328	2.6400	5.777+00
32	4.642+00	1.325+04	8.102-01	20092.2	7.742+03	3.092-09	1.404+15	1.388+15	.994526	.931324	2.6249	5.697+00
33	6.813+00	1.430+04	1.190+00	21831.8	1.138+04	4.174-09	1.895+15	1.882+15	.994639	.972051	2.6220	5.751+00
34	1.000+01	1.543+04	1.736+00	23794.0	1.661+04	5.585-09	2.536+15	2.522+15	.994710	.988504	2.6290	5.931+00
35	1.468+01	1.662+04	2.506+00	25980.9	2.397+04	7.382-09	3.351+15	3.336+15	.994762	.995021	2.6442	6.216+00
36	2.154+01	1.789+04	3.577+00	28446.3	3.420+04	9.615-09	4.365+15	4.347+15	.994819	.998267	2.6639	6.603+00
37	3.162+01	1.923+04	5.045+00	31180.4	4.819+04	1.236-08	5.609+15	5.588+15	.994880	1.002576	2.6873	7.127+00
38	4.642+01	2.065+04	7.024+00	34236.7	6.699+04	1.563-08	7.094+15	7.082+15	.994956	1.020121	2.7152	7.821+00
39	6.813+01	2.214+04	9.630+00	37625.5	9.163+04	1.937-08	8.795+15	8.848+15	.995119	1.093104	2.7522	8.883+00
40	1.000+02	2.367+04	1.291+01	41370.1	1.225+05	2.333-08	1.059+16	1.088+16	.995460	1.304489	2.7658	1.060+01

TEFF = 14000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	6.771-05	8866.9	2.127+00	2.036-12	9.244+11	8.146+11	.978569	.000103	2.1803	4.880-01
2	4.642-05	1.180+02	9.468-05	9320.7	2.977+00	2.697-12	1.225+12	1.089+12	.987358	.000388	1.9931	5.009-01
3	6.813-05	2.383+02	1.342-04	9380.4	4.221+00	3.807-12	1.728+12	1.532+12	.984563	.000352	2.0457	5.637-01
4	1.000-04	3.578+02	1.873-04	9468.6	5.895+00	5.274-12	2.394+12	2.117+12	.982140	.000340	2.0931	6.377-01
5	1.468-04	4.694+02	2.560-04	9564.4	8.059+00	7.143-12	3.243+12	2.861+12	.980059	.000347	2.1350	7.227-01
6	2.154-04	5.768+02	3.449-04	9671.9	1.086+01	9.522-12	4.323+12	3.808+12	.978378	.000369	2.1694	8.204-01
7	3.162-04	6.816+02	4.597-04	9789.2	1.447+01	1.255-11	5.697+12	5.012+12	.977060	.000407	2.1907	9.329-01
8	4.642-04	7.843+02	6.075-04	9902.8	1.912+01	1.640-11	7.446+12	6.541+12	.975600	.000444	2.2157	1.068+00
9	6.813-04	8.853+02	7.965-04	10011.4	2.507+01	2.128-11	9.663+12	8.473+12	.973913	.000476	2.2448	1.228+00
10	1.000-03	9.848+02	1.038-03	10119.0	3.265+01	2.745-11	1.246+13	1.091+13	.972149	.000509	2.2631	1.414+00
11	1.468-03	1.083+03	1.343-03	10208.2	4.225+01	3.526-11	1.601+13	1.397+13	.969476	.000516	2.2959	1.646+00
12	2.154-03	1.179+03	1.728-03	10286.4	5.432+01	4.507-11	2.046+13	1.780+13	.966088	.000507	2.3392	1.925+00
13	3.162-03	1.274+03	2.209-03	10356.7	6.943+01	5.731-11	2.602+13	2.254+13	.962080	.000489	2.3896	2.263+00
14	4.642-03	1.367+03	2.809-03	10422.6	8.824+01	7.255-11	3.294+13	2.839+13	.957473	.000467	2.4455	2.664+00
15	6.813-03	1.458+03	3.557-03	10489.7	1.117+02	9.143-11	4.151+13	3.560+13	.952593	.000449	2.5026	3.136+00
16	1.000-02	1.549+03	4.490-03	10560.7	1.409+02	1.148-10	5.214+13	4.448+13	.947554	.000437	2.5606	3.685+00
17	1.468-02	1.640+03	5.658-03	10640.1	1.773+02	1.438-10	6.529+13	5.542+13	.942740	.000434	2.6197	4.321+00
18	2.154-02	1.731+03	7.122-03	10735.3	2.230+02	1.795-10	8.151+13	6.890+13	.938803	.000449	2.6781	5.046+00
19	3.162-02	1.823+03	8.967-03	10853.3	2.804+02	2.236-10	1.015+14	8.558+13	.936457	.000491	2.7342	5.858+00
20	4.642-02	1.917+03	1.131-02	11003.2	3.532+02	2.777-10	1.261+14	1.063+14	.936482	.000578	2.7864	6.739+00
21	6.813-02	2.014+03	1.432-02	11195.3	4.463+02	3.446-10	1.564+14	1.323+14	.939111	.000738	2.8338	7.672+00
22	1.000-01	2.115+03	1.822-02	11439.6	5.670+02	4.274-10	1.940+14	1.650+14	.944440	.001060	2.8753	8.615+00
23	1.468-01	2.223+03	2.338-02	11753.6	7.260+02	5.306-10	2.409+14	2.066+14	.952391	.001713	2.9080	9.468+00
24	2.154-01	2.340+03	3.035-02	12150.1	9.407+02	6.621-10	3.006+14	2.604+14	.961699	.003151	2.9312	1.016+01
25	3.162-01	2.470+03	4.003-02	12648.8	1.239+03	8.335-10	3.784+14	3.309+14	.970811	.006622	2.9435	1.060+01
26	4.642-01	2.617+03	5.386-02	13261.4	1.663+03	1.064-09	4.829+14	4.261+14	.978455	.015500	2.9427	1.075+01
27	6.813-01	2.784+03	7.413-02	14003.2	2.287+03	1.379-09	6.261+14	5.572+14	.984165	.039206	2.9343	1.067+01
28	1.000+00	2.974+03	1.043-01	14895.0	3.216+03	1.814-09	8.234+14	7.410+14	.988082	.102408	2.9215	1.045+01
29	1.468+00	3.190+03	1.497-01	15958.7	4.613+03	2.406-09	1.092+15	1.002+15	.990573	.251869	2.9055	1.021+01
30	2.154+00	3.432+03	2.170-01	17167.7	6.689+03	3.202-09	1.453+15	1.369+15	.991989	.488851	2.8956	1.019+01
31	3.162+00	3.700+03	3.163-01	18556.8	9.752+03	4.264-09	1.936+15	1.872+15	.992820	.732112	2.8828	1.011+01
32	4.642+00	3.995+03	4.625-01	20102.6	1.427+04	5.714-09	2.594+15	2.549+15	.993274	.880839	2.8742	1.014+01
33	6.813+00	4.315+03	6.753-01	21844.9	2.084+04	7.652-09	3.474+15	3.438+15	.993540	.950325	2.8744	1.029+01
34	1.000+01	4.660+03	9.808-01	23798.8	3.027+04	1.019-08	4.625+15	4.592+15	.993701	.979272	2.8803	1.058+01
35	1.468+01	5.028+03	1.413+00	25989.8	4.361+04	1.343-08	6.097+15	6.062+15	.993813	.990901	2.8946	1.107+01
36	2.154+01	5.419+03	2.015+00	28447.7	6.216+04	1.748-08	7.938+15	7.897+15	.993908	.996057	2.9140	1.175+01
37	3.162+01	5.835+03	2.841+00	31187.6	8.758+04	2.246-08	1.020+16	1.015+16	.994000	.999904	2.9369	1.265+01
38	4.642+01	6.274+03	3.956+00	34236.1	1.219+05	2.845-08	1.292+16	1.287+16	.994099	1.010368	2.9638	1.387+01
39	6.813+01	6.738+03	5.433+00	37628.0	1.671+05	3.542-08	1.608+16	1.610+16	.994244	1.053339	2.9966	1.556+01
40	1.000+02	7.224+03	7.332+00	41394.1	2.253+05	4.315-08	1.959+16	1.989+16	.994546	1.193152	3.0066	1.813+01

TEFF = 15000

LOG G = 2.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.071-04	9801.1	7.451-03	6.237-15	2.831+09	2.675+09	.999674	.445219	1.4792	2.905-01
2	4.642-05	6.993+04	1.589-04	10056.7	1.107-02	8.989-15	4.081+09	3.896+09	.999650	.545892	1.4755	2.938-01
3	6.813-05	1.381+05	2.329-04	10092.2	1.627-02	1.321-14	5.995+09	5.683+09	.999613	.477787	1.4749	2.925-01
4	1.000-04	2.061+05	3.421-04	10147.6	2.392-02	1.937-14	8.792+09	8.285+09	.999574	.424704	1.4749	2.917-01
5	1.468-04	2.744+05	5.026-04	10201.1	3.518-02	2.841-14	1.290+10	1.208+10	.999529	.371651	1.4751	2.912-01
6	2.154-04	3.428+05	7.384-04	10252.7	5.171-02	4.164-14	1.891+10	1.762+10	.999478	.321332	1.4762	2.911-01
7	3.162-04	4.113+05	1.085-03	10300.0	7.594-02	6.101-14	2.770+10	2.568+10	.999420	.272183	1.4786	2.913-01
8	4.642-04	4.798+05	1.592-03	10344.5	1.113-01	8.926-14	4.052+10	3.738+10	.999354	.225425	1.4836	2.921-01
9	6.813-04	5.484+05	2.333-03	10394.8	1.626-01	1.300-13	5.902+10	5.421+10	.999278	.188077	1.4921	2.941-01
10	1.000-03	6.171+05	3.411-03	10462.2	2.366-01	1.882-13	8.544+10	7.825+10	.999196	.161962	1.5019	2.971-01
11	1.468-03	6.861+05	4.974-03	10551.3	3.427-01	2.706-13	1.228+11	1.123+11	.999109	.146345	1.5113	3.014-01
12	2.154-03	7.557+05	7.232-03	10661.1	4.945-01	3.867-13	1.755+11	1.603+11	.999017	.138352	1.5196	3.069-01
13	3.162-03	8.259+05	1.048-02	10785.5	7.109-01	5.496-13	2.495+11	2.278+11	.998921	.134952	1.5272	3.139-01
14	4.642-03	8.967+05	1.513-02	10920.7	1.018+00	7.774-13	3.529+11	3.221+11	.998819	.134393	1.5349	3.226-01
15	6.813-03	9.683+05	2.174-02	11066.5	1.450+00	1.093-12	4.962+11	4.529+11	.998712	.136787	1.5443	3.338-01
16	1.000-02	1.040+06	3.109-02	11210.5	2.054+00	1.528-12	6.937+11	6.333+11	.998597	.138589	1.5551	3.474-01
17	1.468-02	1.113+06	4.423-02	11346.8	2.888+00	2.123-12	9.639+11	8.798+11	.998469	.138035	1.5691	3.644-01
18	2.154-02	1.186+06	6.254-02	11474.5	4.025+00	2.927-12	1.329+12	1.212+12	.998327	.135243	1.5877	3.853-01
19	3.162-02	1.260+06	8.786-02	11600.9	5.549+00	3.992-12	1.812+12	1.653+12	.998176	.132670	1.6111	4.102-01
20	4.642-02	1.335+06	1.227-01	11738.3	7.562+00	5.375-12	2.440+12	2.226+12	.998026	.133734	1.6383	4.389-01
21	6.813-02	1.412+06	1.704-01	11903.9	1.018+01	7.135-12	3.239+12	2.957+12	.997896	.142969	1.6673	4.703-01
22	1.000-01	1.492+06	2.358-01	12123.6	1.358+01	9.328-12	4.235+12	3.876+12	.997807	.168165	1.6959	5.023-01
23	1.468-01	1.576+06	3.259-01	12407.4	1.797+01	1.203-11	5.464+12	5.026+12	.997762	.215712	1.7223	5.336-01
24	2.154-01	1.668+06	4.511-01	12787.5	2.369+01	1.532-11	6.956+12	6.463+12	.997770	.307682	1.7453	5.615-01
25	3.162-01	1.770+06	6.266-01	13290.8	3.125+01	1.929-11	8.757+12	8.272+12	.997813	.461784	1.7636	5.849-01
26	4.642-01	1.885+06	8.753-01	13913.2	4.145+01	2.421-11	1.099+13	1.059+13	.997854	.651332	1.7761	6.029-01
27	6.813-01	2.016+06	1.232+00	14676.0	5.568+01	3.056-11	1.388+13	1.361+13	.997886	.820214	1.7814	6.114-01
28	1.000+00	2.166+06	1.754+00	15611.5	7.635+01	3.919-11	1.779+13	1.764+13	.997905	.925066	1.7798	6.094-01
29	1.468+00	2.338+06	2.526+00	16747.7	1.074+02	5.126-11	2.327+13	2.319+13	.997910	.972998	1.7732	6.024-01
30	2.154+00	2.530+06	3.669+00	18063.7	1.542+02	6.818-11	3.095+13	3.089+13	.997902	.990570	1.7693	6.001-01
31	3.162+00	2.742+06	5.346+00	19586.0	2.234+02	9.110-11	4.136+13	4.130+13	.997890	.996709	1.7677	6.027-01
32	4.642+00	2.973+06	7.787+00	21289.4	3.247+02	1.217-10	5.527+13	5.520+13	.997876	.998798	1.7677	6.100-01
33	6.813+00	3.223+06	1.130+01	23205.9	4.690+02	1.613-10	7.323+13	7.315+13	.997869	.999704	1.7738	6.253-01
34	1.000+01	3.493+06	1.631+01	25343.7	6.681+02	2.104-10	9.553+13	9.545+13	.997870	1.001351	1.7847	6.486-01
35	1.468+01	3.788+06	2.336+01	27737.3	9.372+02	2.695-10	1.224+14	1.224+14	.997887	1.011647	1.7979	6.774-01
36	2.154+01	4.112+06	3.318+01	30403.4	1.289+03	3.369-10	1.530+14	1.540+14	.997941	1.073848	1.8183	7.225-01
37	3.162+01	4.470+06	4.645+01	33373.1	1.712+03	4.030-10	1.829+14	1.887+14	.998100	1.322097	1.8472	7.962-01
38	4.642+01	4.879+06	6.408+01	36652.2	2.192+03	4.608-10	2.092+14	2.240+14	.998293	1.708420	1.8735	8.771-01
39	6.813+01	5.368+06	8.830+01	40376.1	2.819+03	5.326-10	2.418+14	2.637+14	.998409	1.920435	1.8684	9.137-01
40	1.000+02	5.952+06	1.225+02	44426.7	3.796+03	6.499-10	2.950+14	3.242+14	.998465	2.000000	1.8490	9.515-01

TEFF = 15000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.103-04	9706.1	3.138-02	2.697-14	1.224+10	1.117+10	.999491	.125401	1.4903	2.850-01
2	4.642-05	1.634+04	1.624-04	9922.4	4.626-02	3.879-14	1.761+10	1.614+10	.999457	.164801	1.4795	2.867-01
3	6.813-05	3.241+04	2.380-04	9933.0	6.787-02	5.697-14	2.587+10	2.360+10	.999386	.122776	1.4864	2.874-01
4	1.000-04	4.841+04	3.486-04	9963.4	9.942-02	8.331-14	3.782+10	3.439+10	.999305	.095548	1.4950	2.891-01
5	1.468-04	6.438+04	5.096-04	9995.9	1.453-01	1.214-13	5.514+10	5.002+10	.999209	.074251	1.5082	2.918-01
6	2.154-04	8.030+04	7.433-04	10036.3	2.115-01	1.763-13	8.002+10	7.246+10	.999097	.058855	1.5255	2.958-01
7	3.162-04	9.619+04	1.081-03	10090.6	3.066-01	2.544-13	1.155+11	1.044+11	.998971	.048270	1.5450	3.013-01
8	4.642-04	1.121+05	1.566-03	10166.7	4.427-01	3.647-13	1.656+11	1.496+11	.998835	.042199	1.5640	3.083-01
9	6.813-04	1.280+05	2.260-03	10265.5	6.364-01	5.195-13	2.358+11	2.130+11	.998695	.039323	1.5805	3.169-01
10	1.000-03	1.439+05	3.249-03	10385.2	9.110-01	7.352-13	3.338+11	3.014+11	.998554	.038755	1.5941	3.275-01
11	1.468-03	1.599+05	4.650-03	10524.1	1.298+00	1.034-12	4.695+11	4.239+11	.998416	.040134	1.6055	3.403-01
12	2.154-03	1.760+05	6.621-03	10670.8	1.841+00	1.447-12	6.567+11	5.930+11	.998273	.042230	1.6165	3.561-01
13	3.162-03	1.921+05	9.375-03	10815.1	2.596+00	2.013-12	9.139+11	8.253+11	.998117	.044109	1.6289	3.753-01
14	4.642-03	2.082+05	1.319-02	10951.9	3.639+00	2.785-12	1.265+12	1.141+12	.997940	.045120	1.6446	3.993-01
15	6.813-03	2.242+05	1.843-02	11078.1	5.059+00	3.829-12	1.738+12	1.570+12	.997735	.044945	1.6653	4.289-01
16	1.000-02	2.400+05	2.556-02	11191.2	6.971+00	5.224-12	2.372+12	2.140+12	.997494	.043506	1.6926	4.655-01
17	1.468-02	2.558+05	3.514-02	11296.4	9.510+00	7.062-12	3.206+12	2.892+12	.997222	.041532	1.7269	5.099-01
18	2.154-02	2.714+05	4.794-02	11406.8	1.284+01	9.444-12	4.288+12	3.866+12	.996939	.040313	1.7666	5.622-01
19	3.162-02	2.870+05	6.493-02	11527.8	1.717+01	1.249-11	5.672+12	5.113+12	.996667	.040480	1.8097	6.221-01
20	4.642-02	3.027+05	8.747-02	11673.4	2.276+01	1.636-11	7.426+12	6.694+12	.996436	.042906	1.8536	6.884-01
21	6.813-02	3.188+05	1.174-01	11857.6	2.998+01	2.121-11	9.627+12	8.683+12	.996288	.049256	1.8953	7.578-01
22	1.000-01	3.354+05	1.576-01	12096.5	3.938+01	2.728-11	1.239+13	1.119+13	.996250	.062481	1.9323	8.262-01
23	1.468-01	3.530+05	2.120-01	12406.3	5.174+01	3.492-11	1.585+13	1.436+13	.996315	.087737	1.9638	8.899-01
24	2.154-01	3.719+05	2.868-01	12814.5	6.831+01	4.450-11	2.020+13	1.841+13	.996491	.140726	1.9876	9.418-01
25	3.162-01	3.926+05	3.913-01	13335.0	9.099+01	5.665-11	2.572+13	2.371+13	.996701	.243535	2.0049	9.826-01
26	4.642-01	4.157+05	5.393-01	13992.2	1.226+02	7.207-11	3.272+13	3.075+13	.996897	.421186	2.0166	1.013+00
27	6.813-01	4.417+05	7.515-01	14789.5	1.675+02	9.208-11	4.180+13	4.022+13	.997040	.644009	2.0219	1.032+00
28	1.000+00	4.711+05	1.060+00	15744.1	2.327+02	1.191-10	5.406+13	5.303+13	.997128	.829154	2.0188	1.029+00
29	1.468+00	5.045+05	1.518+00	16891.2	3.303+02	1.567-10	7.112+13	7.052+13	.997177	.932829	2.0089	1.012+00
30	2.154+00	5.421+05	2.202+00	18209.5	4.775+02	2.097-10	9.520+13	9.479+13	.997188	.975184	1.9974	9.985-01
31	3.162+00	5.835+05	3.214+00	19711.6	6.981+02	2.829-10	1.285+14	1.281+14	.997180	.990832	1.9894	9.938-01
32	4.642+00	6.286+05	4.701+00	21398.8	1.024+03	3.823-10	1.736+14	1.732+14	.997162	.996466	1.9835	9.988-01
33	6.813+00	6.768+05	6.847+00	23282.3	1.495+03	5.128-10	2.328+14	2.324+14	.997146	.998623	1.9890	1.025+00
34	1.000+01	7.283+05	9.897+00	25403.4	2.158+03	6.784-10	3.080+14	3.074+14	.997141	.999896	2.0004	1.065+00
35	1.468+01	7.834+05	1.418+01	27772.2	3.076+03	8.844-10	4.015+14	4.009+14	.997148	1.003441	2.0154	1.119+00
36	2.154+01	8.424+05	2.011+01	30423.3	4.320+03	1.133-09	5.142+14	5.146+14	.997177	1.023511	2.0375	1.199+00
37	3.162+01	9.052+05	2.810+01	33386.8	5.946+03	1.413-09	6.417+14	6.485+14	.997280	1.121990	2.0688	1.328+00
38	4.642+01	9.716+05	3.841+01	36661.7	7.927+03	1.692-09	7.680+14	7.987+14	.997504	1.412928	2.1175	1.541+00
39	6.813+01	1.044+06	5.157+01	40345.4	1.029+04	1.961-09	8.903+14	9.574+14	.997732	1.759475	2.1486	1.744+00
40	1.000+02	1.127+06	6.920+01	44404.3	1.343+04	2.309-09	1.048+15	1.146+15	.997873	1.952395	2.1346	1.875+00



TEFF = 15000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.088-04	9636.2	1.049-01	9.120-14	4.140+10	3.739+10	.999173	.033162	1.5447	2.906-01
2	4.642-05	4.686+03	1.591-04	9829.9	1.535-01	1.307-13	5.935+10	5.364+10	.999125	.042679	1.5310	2.932-01
3	6.813-05	9.310+03	2.324-04	9824.7	2.242-01	1.912-13	8.681+10	7.835+10	.998959	.029277	1.5595	2.986-01
4	1.000-04	1.388+04	3.379-04	9864.9	3.258-01	2.769-13	1.257+11	1.133+11	.998783	.023021	1.5865	3.052-01
5	1.468-04	1.841+04	4.890-04	9907.9	4.708-01	3.986-13	1.810+11	1.630+11	.998570	.018284	1.6179	3.140-01
6	2.154-04	2.291+04	7.038-04	9975.3	6.764-01	5.690-13	2.583+11	2.326+11	.998343	.015707	1.6481	3.251-01
7	3.162-04	2.738+04	1.007-03	10070.9	9.661-01	8.052-13	3.655+11	3.290+11	.998123	.014772	1.6734	3.385-01
8	4.642-04	3.184+04	1.434-03	10196.5	1.372+00	1.130-12	5.130+11	4.617+11	.997925	.015134	1.6905	3.544-01
9	6.813-04	3.629+04	2.030-03	10333.2	1.939+00	1.576-12	7.153+11	6.437+11	.997728	.015943	1.7045	3.736-01
10	1.000-03	4.074+04	2.857-03	10473.7	2.723+00	2.183-12	9.913+11	8.920+11	.997523	.016939	1.7181	3.969-01
11	1.468-03	4.516+04	3.994-03	10612.4	3.800+00	3.008-12	1.365+12	1.229+12	.997300	.017877	1.7331	4.252-01
12	2.154-03	4.956+04	5.545-03	10746.5	5.266+00	4.116-12	1.869+12	1.681+12	.997048	.018595	1.7510	4.596-01
13	3.162-03	5.392+04	7.641-03	10871.9	7.240+00	5.595-12	2.540+12	2.284+12	.996754	.018858	1.7739	5.017-01
14	4.642-03	5.821+04	1.044-02	10983.1	9.868+00	7.551-12	3.428+12	3.082+12	.996399	.018504	1.8044	5.538-01
15	6.813-03	6.245+04	1.415-02	11088.3	1.333+01	1.010-11	4.587+12	4.122+12	.996001	.018004	1.8406	6.164-01
16	1.000-02	6.662+04	1.902-02	11182.7	1.784+01	1.341-11	6.088+12	5.467+12	.995533	.017166	1.8851	6.929-01
17	1.468-02	7.072+04	2.534-02	11277.3	2.365+01	1.763-11	8.006+12	7.185+12	.995024	.016406	1.9354	7.840-01
18	2.154-02	7.478+04	3.354-02	11380.5	3.110+01	2.298-11	1.043+13	9.357+12	.994518	.016080	1.9886	8.896-01
19	3.162-02	7.883+04	4.414-02	11500.9	4.059+01	2.969-11	1.348+13	1.208+13	.994073	.016499	2.0419	1.008+00
20	4.642-02	8.292+04	5.791-02	11652.6	5.275+01	3.807-11	1.728+13	1.550+13	.993769	.018135	2.0924	1.136+00
21	6.813-02	8.710+04	7.593-02	11846.4	6.841+01	4.855-11	2.204+13	1.977+13	.993664	.021706	2.1381	1.268+00
22	1.000-01	9.144+04	9.979-02	12098.1	8.883+01	6.171-11	2.802+13	2.515+13	.993798	.028843	2.1769	1.395+00
23	1.468-01	9.605+04	1.319-01	12425.3	1.159+02	7.837-11	3.558+13	3.200+13	.994144	.042885	2.2087	1.510+00
24	2.154-01	1.010+05	1.760-01	12854.7	1.526+02	9.957-11	4.520+13	4.082+13	.994676	.073732	2.2311	1.597+00
25	3.162-01	1.065+05	2.377-01	13396.1	2.037+02	1.270-10	5.768+13	5.249+13	.995236	.139040	2.2451	1.659+00
26	4.642-01	1.126+05	3.257-01	14061.3	2.761+02	1.629-10	7.394+13	6.827+13	.995703	.267756	2.2526	1.701+00
27	6.813-01	1.194+05	4.521-01	14864.7	3.797+02	2.097-10	9.520+13	8.989+13	.996044	.473526	2.2554	1.727+00
28	1.000+00	1.271+05	6.368-01	15835.3	5.313+02	2.721-10	1.235+14	1.195+14	.996273	.706707	2.2506	1.722+00
29	1.468+00	1.359+05	9.104-01	16980.8	7.568+02	3.584-10	1.627+14	1.602+14	.996407	.870790	2.2396	1.697+00
30	2.154+00	1.457+05	1.319+00	18299.8	1.096+03	4.795-10	2.177+14	2.161+14	.996469	.949430	2.2254	1.666+00
31	3.162+00	1.565+05	1.926+00	19797.5	1.602+03	6.470-10	2.937+14	2.925+14	.996487	.980683	2.2143	1.658+00
32	4.642+00	1.683+05	2.816+00	21466.2	2.347+03	8.737-10	3.966+14	3.954+14	.996481	.992322	2.2089	1.671+00
33	6.813+00	1.810+05	4.101+00	23343.7	3.424+03	1.172-09	5.320+14	5.306+14	.996472	.996868	2.2117	1.710+00
34	1.000+01	1.945+05	5.930+00	25440.9	4.951+03	1.555-09	7.058+14	7.041+14	.996468	.998849	2.2227	1.776+00
35	1.468+01	2.088+05	8.497+00	27807.5	7.082+03	2.034-09	9.235+14	9.215+14	.996477	1.001038	2.2383	1.868+00
36	2.154+01	2.241+05	1.205+01	30448.4	9.997+03	2.622-09	1.191+15	1.189+15	.996500	1.010220	2.2601	2.004+00
37	3.162+01	2.403+05	1.683+01	33401.4	1.389+04	3.312-09	1.503+15	1.509+15	.996572	1.056639	2.2907	2.214+00
38	4.642+01	2.572+05	2.303+01	36671.2	1.881+04	4.049-09	1.838+15	1.877+15	.996770	1.231069	2.3391	2.569+00
39	6.813+01	2.747+05	3.074+01	40351.5	2.472+04	4.755-09	2.159+15	2.280+15	.997072	1.575406	2.3907	3.061+00
40	1.000+02	2.938+05	4.055+01	44399.9	3.212+04	5.553-09	2.521+15	2.729+15	.997301	1.848655	2.3909	3.442+00

TEFF = 15000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	IGN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.027-04	9585.0	3.198-01	2.802-13	1.272+11	1.145+11	.998472	.009348	1.6676	3.098-01
2	4.642-05	1.406+03	1.487-04	9789.6	4.631-01	3.972-13	1.803+11	1.623+11	.998431	.012637	1.6478	3.161-01
3	6.813-05	2.790+03	2.155-04	9801.0	6.712-01	5.752-13	2.611+11	2.349+11	.998059	.009115	1.6985	3.296-01
4	1.000-04	4.164+03	3.098-04	9861.4	9.647-01	8.218-13	3.731+11	3.354+11	.997698	.007678	1.7407	3.457-01
5	1.468-04	5.506+03	4.414-04	9943.5	1.373+00	1.160-12	5.267+11	4.734+11	.997333	.006997	1.7780	3.652-01
6	2.154-04	6.830+03	6.235-04	10050.1	1.938+00	1.620-12	7.355+11	6.608+11	.997001	.006914	1.8070	3.883-01
7	3.162-04	8.142+03	8.741-04	10176.1	2.714+00	2.241-12	1.018+12	9.139+11	.996700	.007228	1.8259	4.153-01
8	4.642-04	9.442+03	1.217-03	10307.6	3.774+00	3.078-12	1.397+12	1.254+12	.996397	.007664	1.8427	4.475-01
9	6.813-04	1.073+04	1.681-03	10440.8	5.210+00	4.196-12	1.905+12	1.710+12	.996080	.008151	1.8596	4.862-01
10	1.000-03	1.201+04	2.307-03	10571.5	7.141+00	5.680-12	2.579+12	2.314+12	.995732	.008599	1.8782	5.326-01
11	1.468-03	1.327+04	3.140-03	10695.7	9.713+00	7.638-12	3.467+12	3.110+12	.995331	.008903	1.9013	5.889-01
12	2.154-03	1.452+04	4.243-03	10816.0	1.311+01	1.020-11	4.629+12	4.150+12	.994885	.009128	1.9256	6.562-01
13	3.162-03	1.574+04	5.686-03	10918.0	1.755+01	1.352-11	6.139+12	5.501+12	.994307	.008936	1.9608	7.400-01
14	4.642-03	1.694+04	7.554-03	11008.7	2.328+01	1.780-11	8.079+12	7.234+12	.993611	.008534	2.0052	8.424-01
15	6.813-03	1.812+04	9.953-03	11091.3	3.060+01	2.323-11	1.055+13	9.436+12	.992800	.008032	2.0571	9.667-01
16	1.000-02	1.927+04	1.301-02	11173.3	3.990+01	3.009-11	1.366+13	1.221+13	.991910	.007582	2.1137	1.115+00
17	1.468-02	2.041+04	1.690-02	11261.1	5.166+01	3.866-11	1.755+13	1.568+13	.990996	.007295	2.1726	1.288+00
18	2.154-02	2.154+04	2.185-02	11363.0	6.650+01	4.935-11	2.240+13	1.999+13	.990156	.007282	2.2313	1.485+00
19	3.162-02	2.267+04	2.815-02	11487.5	8.530+01	6.263-11	2.843+13	2.535+13	.989495	.007659	2.2877	1.704+00
20	4.642-02	2.382+04	3.626-02	11645.7	1.092+02	7.914-11	3.593+13	3.202+13	.989156	.008665	2.3398	1.937+00
21	6.813-02	2.500+04	4.679-02	11851.1	1.402+02	9.972-11	4.527+13	4.037+13	.989253	.010761	2.3861	2.175+00
22	1.000-01	2.624+04	6.067-02	12114.8	1.805+02	1.256-10	5.702+13	5.089+13	.989792	.014838	2.4253	2.401+00
23	1.468-01	2.756+04	7.931-02	12453.7	2.343+02	1.584-10	7.193+13	6.433+13	.990713	.023029	2.4559	2.600+00
24	2.154-01	2.899+04	1.049-01	12886.9	3.077+02	2.008-10	9.115+13	8.177+13	.991864	.040516	2.4767	2.751+00
25	3.162-01	3.057+04	1.408-01	13430.6	4.102+02	2.562-10	1.163+14	1.050+14	.993007	.079180	2.4880	2.848+00
26	4.642-01	3.233+04	1.922-01	14102.9	5.571+02	3.297-10	1.497+14	1.365+14	.993981	.164484	2.4911	2.894+00
27	6.813-01	3.432+04	2.670-01	14917.6	7.705+02	4.272-10	1.940+14	1.801+14	.994700	.326682	2.4895	2.909+00
28	1.000+00	3.656+04	3.769-01	15901.7	1.084+03	5.569-10	2.528+14	2.409+14	.995190	.565960	2.4825	2.895+00
29	1.468+00	3.908+04	5.385-01	17041.8	1.547+03	7.331-10	3.328+14	3.243+14	.995480	.780209	2.4767	2.895+00
30	2.154+00	4.190+04	7.777-01	18370.7	2.233+03	9.753-10	4.428+14	4.372+14	.995648	.908000	2.4617	2.848+00
31	3.162+00	4.503+04	1.133+00	19851.9	3.256+03	1.312-09	5.958+14	5.917+14	.995719	.963068	2.4482	2.827+00
32	4.642+00	4.844+04	1.655+00	21518.5	4.762+03	1.769-09	8.032+14	7.994+14	.995745	.985056	2.4414	2.843+00
33	6.813+00	5.211+04	2.411+00	23383.2	6.942+03	2.372-09	1.077+15	1.073+15	.995753	.993749	2.4438	2.909+00
34	1.000+01	5.603+04	3.485+00	25474.4	1.004+04	3.148-09	1.429+15	1.424+15	.995760	.997344	2.4546	3.025+00
35	1.468+01	6.018+04	4.986+00	27842.5	1.435+04	4.116-09	1.869+15	1.863+15	.995782	.999619	2.4732	3.209+00
36	2.154+01	6.457+04	7.044+00	30456.8	2.023+04	5.302-09	2.407+15	2.401+15	.995812	1.004682	2.4975	3.464+00
37	3.162+01	6.921+04	9.821+00	33423.4	2.811+04	6.705-09	3.044+15	3.045+15	.995876	1.029775	2.5253	3.796+00
38	4.642+01	7.406+04	1.346+01	36664.9	3.834+04	8.291-09	3.764+15	3.806+15	.996032	1.135104	2.5677	4.343+00
39	6.813+01	7.911+04	1.802+01	40374.4	5.098+04	9.887-09	4.488+15	4.658+15	.996365	1.402271	2.6201	5.203+00
40	1.000+02	8.434+04	2.365+01	44339.9	6.638+04	1.153-08	5.235+15	5.606+15	.996681	1.729626	2.6268	6.111+00

TEFF = 15000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.123-05	9539.2	9.048-01	7.968-13	3.618+11	3.248+11	.996770	.002907	1.8699	3.545-01
2	4.642-05	4.210+02	1.297-04	9822.8	1.287+00	1.101-12	4.996+11	4.488+11	.997089	.005178	1.8142	3.659-01
3	6.813-05	8.382+02	1.857-04	9867.9	1.844+00	1.570-12	7.126+11	6.396+11	.996435	.004211	1.8720	3.936-01
4	1.000-04	1.259+03	2.635-04	9947.9	2.614+00	2.209-12	1.003+12	8.997+11	.995811	.003799	1.9224	4.268-01
5	1.468-04	1.661+03	3.683-04	10048.5	3.653+00	3.057-12	1.388+12	1.245+12	.995252	.003722	1.9593	4.649-01
6	2.154-04	2.054+03	5.091-04	10165.3	5.049+00	4.178-12	1.897+12	1.699+12	.994743	.003828	1.9839	5.091-01
7	3.162-04	2.440+03	6.973-04	10287.6	6.911+00	5.653-12	2.566+12	2.299+12	.994240	.004004	2.0053	5.613-01
8	4.642-04	2.820+03	9.468-04	10411.8	9.382+00	7.584-12	3.443+12	3.082+12	.993726	.004218	2.0267	6.230-01
9	6.813-04	3.195+03	1.276-03	10540.6	1.264+01	1.010-11	4.583+12	4.101+12	.993223	.004497	2.0408	6.950-01
10	1.000-03	3.566+03	1.707-03	10657.5	1.690+01	1.336-11	6.064+12	5.422+12	.992595	.004647	2.0623	7.830-01
11	1.468-03	3.930+03	2.266-03	10761.8	2.242+01	1.755-11	7.970+12	7.120+12	.991816	.004649	2.0940	8.908-01
12	2.154-03	4.287+03	2.983-03	10854.2	2.950+01	2.291-11	1.040+13	9.285+12	.990859	.004518	2.1346	1.023+00
13	3.162-03	4.636+03	3.897-03	10937.2	3.850+01	2.970-11	1.348+13	1.202+13	.989716	.004308	2.1831	1.183+00
14	4.642-03	4.978+03	5.052-03	11013.6	4.987+01	3.822-11	1.735+13	1.545+13	.988405	.004064	2.2374	1.376+00
15	6.813-03	5.314+03	6.507-03	11087.0	6.415+01	4.887-11	2.219+13	1.973+13	.986923	.003820	2.2965	1.606+00
16	1.000-02	5.645+03	8.334-03	11164.1	8.203+01	6.211-11	2.820+13	2.502+13	.985358	.003635	2.3579	1.879+00
17	1.468-02	5.973+03	1.063-02	11251.2	1.044+02	7.851-11	3.564+13	3.158+13	.983840	.003555	2.4192	2.192+00
18	2.154-02	6.301+03	1.353-02	11356.9	1.325+02	9.879-11	4.485+13	3.969+13	.982555	.003632	2.4787	2.545+00
19	3.162-02	6.632+03	1.720-02	11486.2	1.681+02	1.239-10	5.625+13	4.974+13	.981666	.003917	2.5355	2.935+00
20	4.642-02	6.971+03	2.189-02	11650.0	2.134+02	1.551-10	7.040+13	6.224+13	.981392	.004540	2.5878	3.350+00
21	6.813-02	7.320+03	2.797-02	11859.8	2.716+02	1.939-10	8.802+13	7.787+13	.981866	.005739	2.6343	3.774+00
22	1.000-01	7.688+03	3.597-02	12129.5	3.479+02	2.427-10	1.102+14	9.760+13	.983132	.008053	2.6734	4.178+00
23	1.468-01	8.081+03	4.668-02	12474.9	4.498+02	3.047-10	1.383+14	1.229+14	.985024	.012730	2.7039	4.528+00
24	2.154-01	8.509+03	6.138-02	12913.6	5.893+02	3.849-10	1.747+14	1.557+14	.987316	.022874	2.7229	4.781+00
25	3.162-01	8.985+03	8.209-02	13463.5	7.853+02	4.909-10	2.229+14	1.996+14	.989521	.045767	2.7314	4.928+00
26	4.642-01	9.518+03	1.119-01	14138.9	1.068+03	6.331-10	2.874+14	2.593+14	.991354	.098163	2.7316	4.986+00
27	6.813-01	1.012+04	1.554-01	14957.7	1.479+03	8.237-10	3.739+14	3.422+14	.992737	.213078	2.7281	4.997+00
28	1.000+00	1.079+04	2.192-01	15940.0	2.083+03	1.077-09	4.889+14	4.579+14	.993684	.418492	2.7218	4.989+00
29	1.468+00	1.155+04	3.128-01	17079.6	2.970+03	1.415-09	6.423+14	6.175+14	.994265	.661323	2.7172	5.006+00
30	2.154+00	1.239+04	4.509-01	18409.3	4.280+03	1.873-09	8.505+14	8.335+14	.994621	.844194	2.7029	4.941+00
31	3.162+00	1.334+04	6.560-01	19887.9	6.229+03	2.512-09	1.140+15	1.128+15	.994797	.934266	2.6869	4.897+00
32	4.642+00	1.437+04	9.573-01	21541.8	9.098+03	3.381-09	1.535+15	1.524+15	.994882	.972515	2.6806	4.935+00
33	6.813+00	1.547+04	1.391+00	23401.4	1.322+04	4.520-09	2.052+15	2.041+15	.994930	.988385	2.6869	5.086+00
34	1.000+01	1.665+04	2.004+00	25501.3	1.905+04	5.972-09	2.711+15	2.699+15	.994970	.994953	2.6994	5.319+00
35	1.468+01	1.789+04	2.856+00	27838.9	2.714+04	7.792-09	3.538+15	3.524+15	.995009	.998045	2.7188	5.655+00
36	2.154+01	1.921+04	4.027+00	30483.1	3.822+04	1.002-08	4.549+15	4.532+15	.995063	1.001641	2.7415	6.076+00
37	3.162+01	2.061+04	5.611+00	33409.8	5.316+04	1.271-08	5.769+15	5.757+15	.995125	1.015090	2.7678	6.645+00
38	4.642+01	2.208+04	7.709+00	36685.4	7.286+04	1.581-08	7.178+15	7.207+15	.995258	1.073322	2.8030	7.479+00
39	6.813+01	2.361+04	1.037+01	40316.6	9.768+04	1.911-08	8.676+15	8.874+15	.995561	1.259675	2.8517	8.844+00
40	1.000+02	2.520+04	1.367+01	44351.4	1.283+05	2.248-08	1.021+16	1.076+16	.995951	1.570100	2.8679	1.057+01

TEFF = 15000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	7.376-05	9514.1	2.321+00	2.057-12	9.339+11	8.349+11	.992654	.000987	2.1170	4.458-01
2	4.642-05	1.270+02	1.033-04	9902.8	3.250+00	2.763-12	1.254+12	1.124+12	.994660	.002587	2.0092	4.609-01
3	6.813-05	2.552+02	1.464-04	9956.2	4.609+00	3.899-12	1.770+12	1.584+12	.993461	.002174	2.0783	5.156-01
4	1.000-04	3.832+02	2.047-04	10049.0	6.445+00	5.406-12	2.454+12	2.193+12	.992421	.002052	2.1313	5.787-01
5	1.468-04	5.036+02	2.808-04	10157.6	8.840+00	7.338-12	3.331+12	2.974+12	.991574	.002095	2.1623	6.492-01
6	2.154-04	6.204+02	3.802-04	10276.8	1.197+01	9.823-12	4.460+12	3.979+12	.990829	.002216	2.1778	7.296-01
7	3.162-04	7.346+02	5.098-04	10397.2	1.605+01	1.302-11	5.911+12	5.271+12	.990075	.002353	2.1900	8.241-01
8	4.642-04	8.466+02	6.776-04	10509.1	2.133+01	1.712-11	7.774+12	6.925+12	.989175	.002441	2.2100	9.383-01
9	6.813-04	9.564+02	8.929-04	10612.0	2.810+01	2.235-11	1.015+13	9.031+12	.988098	.002474	2.2384	1.076+00
10	1.000-03	1.064+03	1.167-03	10706.9	3.673+01	2.898-11	1.316+13	1.170+13	.986822	.002457	2.2742	1.243+00
11	1.468-03	1.170+03	1.515-03	10792.6	4.766+01	3.733-11	1.695+13	1.504+13	.985291	.002387	2.3171	1.446+00
12	2.154-03	1.273+03	1.953-03	10871.2	6.139+01	4.778-11	2.169+13	1.922+13	.983500	.002287	2.3662	1.690+00
13	3.162-03	1.375+03	2.501-03	10943.7	7.860+01	6.083-11	2.762+13	2.441+13	.981432	.002167	2.4205	1.984+00
14	4.642-03	1.474+03	3.186-03	11011.4	1.001+02	7.704-11	3.498+13	3.084+13	.979033	.002033	2.4800	2.335+00
15	6.813-03	1.573+03	4.040-03	11083.6	1.268+02	9.710-11	4.408+13	3.877+13	.976556	.001939	2.5398	2.746+00
16	1.000-02	1.671+03	5.106-03	11159.2	1.601+02	1.219-10	5.535+13	4.855+13	.973936	.001866	2.6019	3.228+00
17	1.468-02	1.768+03	6.438-03	11246.5	2.017+02	1.526-10	6.926+13	6.060+13	.971475	.001849	2.6638	3.783+00
18	2.154-02	1.866+03	8.112-03	11351.6	2.538+02	1.904-10	8.643+13	7.545+13	.969431	.001907	2.7240	4.410+00
19	3.162-02	1.966+03	1.023-02	11482.7	3.195+02	2.371-10	1.076+14	9.384+13	.968156	.002080	2.7811	5.100+00
20	4.642-02	2.068+03	1.293-02	11649.0	4.031+02	2.949-10	1.339+14	1.167+14	.968019	.002440	2.8335	5.834+00
21	6.813-02	2.173+03	1.641-02	11862.7	5.109+02	3.668-10	1.665+14	1.454+14	.969166	.003114	2.8802	6.588+00
22	1.000-01	2.285+03	2.098-02	12135.2	6.517+02	4.570-10	2.075+14	1.816+14	.971613	.004384	2.9203	7.319+00
23	1.468-01	2.404+03	2.710-02	12486.9	8.398+02	5.712-10	2.593+14	2.279+14	.975314	.007029	2.9511	7.940+00
24	2.154-01	2.535+03	3.548-02	12928.4	1.097+03	7.192-10	3.265+14	2.884+14	.979557	.012705	2.9700	8.395+00
25	3.162-01	2.680+03	4.727-02	13480.7	1.459+03	9.147-10	4.153+14	3.689+14	.983648	.025770	2.9786	8.660+00
26	4.642-01	2.843+03	6.424-02	14160.4	1.979+03	1.178-09	5.347+14	4.782+14	.987097	.057153	2.9785	8.747+00
27	6.813-01	3.027+03	8.912-02	14984.7	2.743+03	1.534-09	6.964+14	6.297+14	.989692	.131825	2.9725	8.710+00
28	1.000+00	3.235+03	1.259-01	15974.1	3.870+03	2.012-09	9.136+14	8.420+14	.991477	.289525	2.9628	8.645+00
29	1.468+00	3.468+03	1.798-01	17108.0	5.528+03	2.651-09	1.203+15	1.139+15	.992561	.518918	2.9577	8.690+00
30	2.154+00	3.728+03	2.591-01	18435.0	7.963+03	3.501-09	1.590+15	1.541+15	.993247	.748073	2.9454	8.636+00
31	3.162+00	4.015+03	3.758-01	19901.4	1.155+04	4.673-09	2.121+15	2.086+15	.993612	.885201	2.9333	8.643+00
32	4.642+00	4.329+03	5.457-01	21563.9	1.678+04	6.243-09	2.834+15	2.806+15	.993830	.950939	2.9312	8.785+00
33	6.813+00	4.665+03	7.890-01	23415.2	2.427+04	8.301-09	3.769+15	3.743+15	.993957	.978945	2.9373	9.066+00
34	1.000+01	5.025+03	1.133+00	25511.8	3.485+04	1.093-08	4.964+15	4.936+15	.994050	.990704	2.9488	9.461+00
35	1.468+01	5.408+03	1.613+00	27851.6	4.958+04	1.425-08	6.468+15	6.435+15	.994125	.995833	2.9680	1.005+01
36	2.154+01	5.814+03	2.272+00	30490.6	6.980+04	1.832-08	8.315+15	8.277+15	.994206	.999319	2.9905	1.078+01
37	3.162+01	6.246+03	3.166+00	33420.2	9.722+04	2.325-08	1.056+16	1.051+16	.994291	1.007537	3.0159	1.177+01
38	4.642+01	6.702+03	4.355+00	36692.1	1.336+05	2.904-08	1.318+16	1.318+16	.994411	1.041111	3.0468	1.312+01
39	6.813+01	7.179+03	5.891+00	40326.4	1.803+05	3.546-08	1.610+16	1.630+16	.994679	1.161800	3.0875	1.520+01
40	1.000+02	7.680+03	7.818+00	44384.4	2.389+05	4.222-08	1.917+16	1.990+16	.995095	1.414942	3.1067	1.808+01

TEFF = 16000

LOG G = 2.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	IGN(HE)	LCG G RAD	K(RCSS)
1	0.000+00	0.000+00	1.038-04	10380.6	6.012-03	4.654-15	2.113+09	2.082+09	.999713	.850897	1.6174	3.021-01
2	4.642-05	8.967+04	1.531-04	10695.6	8.915-03	6.681-15	3.033+09	3.005+09	.999693	.902858	1.6109	3.041-01
3	6.813-05	1.779+05	2.246-04	10748.5	1.314-02	9.811-15	4.454+09	4.401+09	.999663	.879297	1.6111	3.039-01
4	1.000-04	2.660+05	3.294-04	10820.0	1.934-02	1.436-14	6.521+09	6.429+09	.999630	.857221	1.6109	3.039-01
5	1.468-04	3.543+05	4.834-04	10897.0	2.846-02	2.101-14	9.537+09	9.379+09	.999595	.833682	1.6104	3.039-01
6	2.154-04	4.430+05	7.092-04	10979.4	4.184-02	3.069-14	1.394+10	1.367+10	.999556	.808971	1.6095	3.041-01
7	3.162-04	5.321+05	1.041-03	11062.2	6.151-02	4.485-14	2.036+10	1.991+10	.999513	.781276	1.6084	3.043-01
8	4.642-04	6.215+05	1.526-03	11140.2	9.040-02	6.556-14	2.976+10	2.901+10	.999466	.748129	1.6077	3.046-01
9	6.813-04	7.110+05	2.239-03	11210.6	1.327-01	9.585-14	4.351+10	4.224+10	.999413	.707653	1.6085	3.052-01
10	1.000-03	8.008+05	3.281-03	11274.9	1.945-01	1.400-13	6.357+10	6.139+10	.999354	.660171	1.6109	3.062-01
11	1.468-03	8.907+05	4.805-03	11340.2	2.845-01	2.041-13	9.265+10	8.901+10	.999288	.609980	1.6151	3.077-01
12	2.154-03	9.808+05	7.027-03	11419.7	4.145-01	2.960-13	1.344+11	1.285+11	.999217	.565938	1.6202	3.103-01
13	3.162-03	1.071+06	1.026-02	11521.3	6.018-01	4.267-13	1.937+11	1.846+11	.999141	.533976	1.6251	3.142-01
14	4.642-03	1.162+06	1.492-02	11640.7	8.708-01	6.118-13	2.777+11	2.641+11	.999060	.511819	1.6293	3.196-01
15	6.813-03	1.254+06	2.164-02	11768.7	1.254+00	8.726-13	3.962+11	3.759+11	.998973	.494078	1.6349	3.269-01
16	1.000-02	1.346+06	3.125-02	11895.3	1.797+00	1.238-12	5.620+11	5.322+11	.998879	.475597	1.6428	3.364-01
17	1.468-02	1.439+06	4.491-02	12017.3	2.555+00	1.744-12	7.919+11	7.481+11	.998776	.455107	1.6537	3.484-01
18	2.154-02	1.532+06	6.419-02	12140.0	3.600+00	2.435-12	1.106+12	1.042+12	.998666	.436173	1.6679	3.634-01
19	3.162-02	1.626+06	9.123-02	12269.2	5.019+00	3.362-12	1.526+12	1.437+12	.998550	.422088	1.6854	3.817-01
20	4.642-02	1.722+06	1.289-01	12412.6	6.913+00	4.579-12	2.079+12	1.955+12	.998434	.416714	1.7064	4.032-01
21	6.813-02	1.820+06	1.811-01	12583.5	9.403+00	6.141-12	2.788+12	2.624+12	.998324	.426092	1.7302	4.275-01
22	1.000-01	1.922+06	2.533-01	12823.2	1.261+01	8.068-12	3.663+12	3.464+12	.998238	.469251	1.7571	4.537-01
23	1.468-01	2.031+06	3.535-01	13139.2	1.673+01	1.040-11	4.721+12	4.501+12	.998178	.546437	1.7822	4.791-01
24	2.154-01	2.150+06	4.932-01	13548.7	2.201+01	1.320-11	5.990+12	5.776+12	.998143	.654580	1.8036	5.017-01
25	3.162-01	2.283+06	6.904-01	14077.8	2.893+01	1.659-11	7.530+12	7.353+12	.998127	.777000	1.8193	5.186-01
26	4.642-01	2.434+06	9.728-01	14753.4	3.833+01	2.086-11	9.471+12	9.347+12	.998122	.881502	1.8278	5.278-01
27	6.813-01	2.608+06	1.383+00	15577.5	5.162+01	2.652-11	1.204+13	1.196+13	.998116	.945972	1.8309	5.309-01
28	1.000+00	2.806+06	1.984+00	16584.9	7.106+01	3.423-11	1.554+13	1.550+13	.998106	.978326	1.8296	5.297-01
29	1.468+00	3.032+06	2.868+00	17809.6	9.994+01	4.480-11	2.034+13	2.031+13	.998096	.992066	1.8271	5.285-01
30	2.154+00	3.282+06	4.162+00	19226.1	1.423+02	5.906-11	2.681+13	2.678+13	.998083	.997119	1.8287	5.325-01
31	3.162+00	3.559+06	6.044+00	20864.3	2.034+02	7.780-11	3.532+13	3.529+13	.998074	.998961	1.8300	5.392-01
32	4.642+00	3.862+06	8.756+00	22689.2	2.902+02	1.021-10	4.634+13	4.630+13	.998068	.999737	1.8350	5.518-01
33	6.813+00	4.194+06	1.262+01	24745.6	4.092+02	1.320-10	5.991+13	5.987+13	.998072	1.001142	1.8454	5.711-01
34	1.000+01	4.560+06	1.810+01	27041.6	5.688+02	1.678-10	7.616+13	7.618+13	.998088	1.010063	1.8550	5.934-01
35	1.468+01	4.968+06	2.578+01	29587.4	7.761+02	2.086-10	9.472+13	9.529+13	.998134	1.065261	1.8715	6.254-01
36	2.154+01	5.429+06	3.631+01	32449.3	1.024+03	2.479-10	1.125+14	1.159+14	.998276	1.302813	1.8957	6.779-01
37	3.162+01	5.966+06	5.052+01	35602.1	1.299+03	2.814-10	1.277+14	1.366+14	.998456	1.697527	1.9132	7.366-01
38	4.642+01	6.618+06	7.022+01	39089.1	1.657+03	3.235-10	1.469+14	1.602+14	.998560	1.916193	1.9107	7.634-01
39	6.813+01	7.405+06	9.824+01	43037.6	2.220+03	3.923-10	1.781+14	1.956+14	.998607	1.977774	1.8954	7.868-01
40	1.000+02	8.303+06	1.377+02	47361.6	3.130+03	5.032-10	2.284+14	2.512+14	.998626	2.000000	1.8756	8.292-01

TEFF = 16000

LOG G = 2.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.066-04	10287.1	2.919-02	2.322-14	1.054+10	9.998+09	.999560	.481463	1.6180	2.939-01
2	4.642-05	1.839+04	1.568-04	10599.7	4.300-02	3.301-14	1.499+10	1.439+10	.999532	.601823	1.6102	2.983-01
3	6.813-05	3.661+04	2.296-04	10640.4	6.307-02	4.839-14	2.197+10	2.095+10	.999483	.537076	1.6111	2.976-01
4	1.000-04	5.485+04	3.367-04	10699.6	9.255-02	7.082-14	3.215+10	3.049+10	.999429	.483049	1.6126	2.976-01
5	1.468-04	7.313+04	4.938-04	10759.6	1.358-01	1.036-13	4.701+10	4.433+10	.999369	.429997	1.6157	2.982-01
6	2.154-04	9.143+04	7.235-04	10819.5	1.988-01	1.512-13	6.867+10	6.438+10	.999302	.378216	1.6205	2.996-01
7	3.162-04	1.097+05	1.059-03	10875.9	2.907-01	2.206-13	1.002+11	9.337+10	.999224	.325678	1.6276	3.018-01
8	4.642-04	1.280+05	1.546-03	10934.9	4.239-01	3.207-13	1.456+11	1.351+11	.999137	.279705	1.6374	3.054-01
9	6.813-04	1.462+05	2.251-03	11005.5	6.158-01	4.638-13	2.106+11	1.945+11	.999040	.243447	1.6491	3.107-01
10	1.000-03	1.644+05	3.265-03	11097.1	8.906-01	6.661-13	3.024+11	2.787+11	.998937	.219424	1.6605	3.179-01
11	1.468-03	1.825+05	4.714-03	11210.8	1.281+00	9.496-13	4.311+11	3.966+11	.998828	.206264	1.6718	3.276-01
12	2.154-03	2.007+05	6.770-03	11336.1	1.834+00	1.345-12	6.105+11	5.611+11	.998713	.198038	1.6829	3.399-01
13	3.162-03	2.188+05	9.668-03	11461.2	2.609+00	1.893-12	8.594+11	7.890+11	.998587	.189904	1.6954	3.554-01
14	4.642-03	2.368+05	1.372-02	11580.2	3.685+00	2.648-12	1.202+12	1.102+12	.998446	.179998	1.7115	3.749-01
15	6.813-03	2.547+05	1.932-02	11695.7	5.163+00	3.676-12	1.669+12	1.528+12	.998291	.169724	1.7315	3.990-01
16	1.000-02	2.725+05	2.702-02	11807.1	7.170+00	5.060-12	2.297+12	2.101+12	.998119	.159480	1.7559	4.287-01
17	1.468-02	2.902+05	3.748-02	11916.1	9.861+00	6.900-12	3.133+12	2.862+12	.997933	.149826	1.7857	4.648-01
18	2.154-02	3.077+05	5.159-02	12033.8	1.342+01	9.305-12	4.224+12	3.855+12	.997740	.143811	1.8216	5.076-01
19	3.162-02	3.253+05	7.050-02	12163.3	1.809+01	1.241-11	5.632+12	5.139+12	.997548	.141689	1.8617	5.571-01
20	4.642-02	3.430+05	9.577-02	12319.3	2.415+01	1.635-11	7.421+12	6.774+12	.997375	.147031	1.9031	6.119-01
21	6.813-02	3.610+05	1.296-01	12516.4	3.200+01	2.130-11	9.671+12	8.841+12	.997239	.163244	1.9435	6.698-01
22	1.000-01	3.798+05	1.751-01	12780.9	4.221+01	2.747-11	1.247+13	1.144+13	.997166	.199499	1.9812	7.275-01
23	1.468-01	3.996+05	2.369-01	13125.4	5.559+01	3.512-11	1.594+13	1.474+13	.997149	.264299	2.0143	7.820-01
24	2.154-01	4.211+05	3.220-01	13573.0	7.341+01	4.459-11	2.024+13	1.894+13	.997185	.375998	2.0403	8.282-01
25	3.162-01	4.447+05	4.408-01	14138.7	9.763+01	5.646-11	2.563+13	2.439+13	.997240	.535043	2.0593	8.648-01
26	4.642-01	4.711+05	6.094-01	14854.7	1.313+02	7.161-11	3.251+13	3.152+13	.997301	.716978	2.0704	8.873-01
27	6.813-01	5.010+05	8.528-01	15720.0	1.796+02	9.187-11	4.171+13	4.104+13	.997342	.859053	2.0720	8.939-01
28	1.000+00	5.350+05	1.210+00	16759.9	2.506+02	1.197-10	5.436+13	5.395+13	.997361	.940229	2.0679	8.888-01
29	1.468+00	5.733+05	1.739+00	17999.5	3.566+02	1.583-10	7.189+13	7.161+13	.997365	.977058	2.0601	8.797-01
30	2.154+00	6.159+05	2.521+00	19415.6	5.147+02	2.117-10	9.613+13	9.590+13	.997352	.991245	2.0535	8.782-01
31	3.162+00	6.624+05	3.666+00	21020.6	7.481+02	2.842-10	1.290+14	1.288+14	.997332	.996574	2.0488	8.833-01
32	4.642+00	7.126+05	5.325+00	22819.1	1.087+03	3.803-10	1.727+14	1.724+14	.997313	.998639	2.0498	9.017-01
33	6.813+00	7.664+05	7.687+00	24831.1	1.566+03	5.034-10	2.285+14	2.282+14	.997302	.999771	2.0603	9.368-01
34	1.000+01	8.239+05	1.101+01	27093.0	2.228+03	6.566-10	2.981+14	2.977+14	.997304	1.002456	2.0741	9.814-01
35	1.468+01	8.857+05	1.563+01	29626.1	3.129+03	8.426-10	3.825+14	3.826+14	.997324	1.017454	2.0932	1.045+00
36	2.154+01	9.520+05	2.191+01	32460.8	4.312+03	1.056-09	4.793+14	4.832+14	.997397	1.094345	2.1216	1.144+00
37	3.162+01	1.023+06	3.012+01	35619.1	5.768+03	1.271-09	5.769+14	5.966+14	.997599	1.352645	2.1641	1.309+00
38	4.642+01	1.099+06	4.066+01	39121.9	7.495+03	1.476-09	6.702+14	7.177+14	.997823	1.712752	2.1984	1.489+00
39	6.813+01	1.187+06	5.474+01	43022.8	9.729+03	1.726-09	7.834+14	8.542+14	.997958	1.910806	2.2003	1.586+00
40	1.000+02	1.292+06	7.436+01	47404.5	1.293+04	2.076-09	9.427+14	1.035+15	.998042	2.000000	2.1778	1.667+00

TEFF = 16000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ICN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.070-04	10249.7	1.022-01	8.286-14	3.762+10	3.458+10	.999356	.193842	1.6384	2.910-01
2	4.642-05	5.231+03	1.584-04	10541.7	1.513-01	1.188-13	5.394+10	5.000+10	.999320	.273333	1.6255	2.952-01
3	6.813-05	1.034+04	2.317-04	10569.0	2.215-01	1.739-13	7.897+10	7.277+10	.999237	.217909	1.6360	2.973-01
4	1.000-04	1.540+04	3.383-04	10615.5	3.235-01	2.534-13	1.150+11	1.055+11	.999144	.178994	1.6488	3.008-01
5	1.468-04	2.044+04	4.925-04	10658.4	4.707-01	3.679-13	1.670+11	1.526+11	.999035	.144415	1.6656	3.060-01
6	2.154-04	2.544+04	7.142-04	10711.1	6.819-01	5.311-13	2.411+11	2.197+11	.998911	.118705	1.6853	3.133-01
7	3.162-04	3.040+04	1.031-03	10780.7	9.827-01	7.613-13	3.456+11	3.143+11	.998774	.101256	1.7059	3.231-01
8	4.642-04	3.533+04	1.480-03	10876.2	1.408+00	1.082-12	4.913+11	4.463+11	.998631	.091920	1.7265	3.357-01
9	6.813-04	4.024+04	2.112-03	10990.5	2.006+00	1.526-12	6.927+11	6.287+11	.998484	.087307	1.7436	3.512-01
10	1.000-03	4.511+04	2.994-03	11112.7	2.839+00	2.136-12	9.699+11	8.800+11	.998327	.084469	1.7593	3.704-01
11	1.468-03	4.995+04	4.217-03	11234.3	3.990+00	2.971-12	1.349+12	1.223+12	.998154	.081584	1.7766	3.941-01
12	2.154-03	5.475+04	5.896-03	11351.8	5.566+00	4.104-12	1.863+12	1.689+12	.997961	.078106	1.7977	4.234-01
13	3.162-03	5.948+04	8.178-03	11464.8	7.701+00	5.624-12	2.553+12	2.313+12	.997745	.074249	1.8231	4.593-01
14	4.642-03	6.416+04	1.125-02	11574.0	1.056+01	7.643-12	3.470+12	3.141+12	.997506	.070368	1.8532	5.030-01
15	6.813-03	6.877+04	1.535-02	11683.0	1.435+01	1.029-11	4.674+12	4.227+12	.997246	.066893	1.8891	5.558-01
16	1.000-02	7.331+04	2.077-02	11783.6	1.933+01	1.375-11	6.242+12	5.642+12	.996953	.062887	1.9316	6.199-01
17	1.468-02	7.779+04	2.787-02	11884.4	2.579+01	1.819-11	8.259+12	7.460+12	.996636	.059428	1.9797	6.962-01
18	2.154-02	8.222+04	3.713-02	11993.7	3.411+01	2.384-11	1.083+13	9.773+12	.996316	.057527	2.0311	7.847-01
19	3.162-02	8.665+04	4.919-02	12123.8	4.479+01	3.097-11	1.406+13	1.269+13	.996021	.058152	2.0833	8.842-01
20	4.642-02	9.111+04	6.493-02	12287.9	5.850+01	3.991-11	1.812+13	1.636+13	.995794	.062823	2.1332	9.911-01
21	6.813-02	9.569+04	8.564-02	12498.6	7.624+01	5.111-11	2.320+13	2.097+13	.995664	.073562	2.1787	1.101+00
22	1.000-01	1.004+05	1.132-01	12777.9	9.940+01	6.512-11	2.957+13	2.679+13	.995667	.095675	2.2185	1.206+00
23	1.468-01	1.055+05	1.504-01	13146.1	1.302+02	8.274-11	3.756+13	3.419+13	.995791	.138354	2.2524	1.300+00
24	2.154-01	1.110+05	2.016-01	13620.1	1.720+02	1.050-10	4.767+13	4.379+13	.995996	.219730	2.2772	1.376+00
25	3.162-01	1.170+05	2.732-01	14214.0	2.297+02	1.334-10	6.056+13	5.649+13	.996217	.358367	2.2943	1.435+00
26	4.642-01	1.237+05	3.747-01	14941.0	3.110+02	1.701-10	7.722+13	7.353+13	.996401	.550282	2.3040	1.475+00
27	6.813-01	1.313+05	5.210-01	15819.2	4.278+02	2.188-10	9.935+13	9.655+13	.996534	.745490	2.3047	1.488+00
28	1.000+00	1.399+05	7.360-01	16877.3	5.996+02	2.855-10	1.296+14	1.277+14	.996621	.883098	2.2984	1.477+00
29	1.468+00	1.495+05	1.055+00	18114.2	8.560+02	3.784-10	1.718+14	1.706+14	.996662	.952296	2.2868	1.456+00
30	2.154+00	1.603+05	1.528+00	19530.9	1.238+03	5.070-10	2.302+14	2.292+14	.996669	.981180	2.2771	1.450+00
31	3.162+00	1.720+05	2.221+00	21125.8	1.802+03	6.814-10	3.094+14	3.084+14	.996658	.992411	2.2699	1.461+00
32	4.642+00	1.847+05	3.222+00	22899.4	2.616+03	9.125-10	4.143+14	4.132+14	.996640	.996816	2.2716	1.496+00
33	6.813+00	1.982+05	4.646+00	24900.0	3.772+03	1.210-09	5.493+14	5.480+14	.996630	.998767	2.2799	1.552+00
34	1.000+01	2.126+05	6.650+00	27138.4	5.387+03	1.585-09	7.198+14	7.183+14	.996631	1.000527	2.2942	1.630+00
35	1.468+01	2.280+05	9.428+00	29661.4	7.606+03	2.047-09	9.294+14	9.282+14	.996646	1.007210	2.3142	1.739+00
36	2.154+01	2.443+05	1.321+01	32481.5	1.058+04	2.597-09	1.179+15	1.181+15	.996698	1.041322	2.3413	1.899+00
37	3.162+01	2.614+05	1.817+01	35630.9	1.440+04	3.200-09	1.453+15	1.476+15	.996857	1.181248	2.3834	2.170+00
38	4.642+01	2.792+05	2.440+01	39124.8	1.903+04	3.788-09	1.720+15	1.804+15	.997135	1.503423	2.4367	2.581+00
39	6.813+01	2.984+05	3.224+01	43047.7	2.464+04	4.392-09	1.994+15	2.152+15	.997373	1.805844	2.4649	2.922+00
40	1.000+02	3.207+05	4.280+01	47412.4	3.220+04	5.183-09	2.353+15	2.576+15	.997527	1.974224	2.4498	3.146+00

TEFF = 16000

LOG G = 3.5

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	1.040-04	10238.1	3.234-01	2.643-13	1.200+11	1.088+11	.999016	.068152	1.7065	3.013-01
2	4.642-05	1.561+03	1.527-04	10498.2	4.748-01	3.780-13	1.716+11	1.560+11	.998972	.095595	1.6872	3.068-01
3	6.813-05	3.087+03	2.224-04	10503.8	6.919-01	5.513-13	2.503+11	2.268+11	.998802	.068756	1.7195	3.159-01
4	1.000-04	4.579+03	3.214-04	10553.3	9.996-01	7.934-13	3.602+11	3.258+11	.998624	.055479	1.7509	3.276-01
5	1.468-04	6.047+03	4.609-04	10616.2	1.433+00	1.131-12	5.134+11	4.639+11	.998425	.046562	1.7857	3.429-01
6	2.154-04	7.493+03	6.557-04	10705.0	2.036+00	1.595-12	7.239+11	6.537+11	.998221	.041999	1.8151	3.616-01
7	3.162-04	8.923+03	9.259-04	10812.3	2.873+00	2.228-12	1.011+12	9.128+11	.998014	.039857	1.8388	3.840-01
8	4.642-04	1.034+04	1.298-03	10929.1	4.022+00	3.086-12	1.401+12	1.264+12	.997798	.038811	1.8593	4.112-01
9	6.813-04	1.173+04	1.805-03	11047.9	5.589+00	4.244-12	1.927+12	1.738+12	.997564	.038025	1.8801	4.441-01
10	1.000-03	1.312+04	2.491-03	11164.4	7.705+00	5.790-12	2.629+12	2.370+12	.997305	.037106	1.9038	4.841-01
11	1.468-03	1.448+04	3.411-03	11278.3	1.054+01	7.840-12	3.559+12	3.208+12	.997019	.036060	1.9317	5.327-01
12	2.154-03	1.582+04	4.632-03	11391.5	1.429+01	1.053-11	4.780+12	4.306+12	.996708	.035100	1.9628	5.911-01
13	3.162-03	1.713+04	6.239-03	11494.7	1.921+01	1.404-11	6.372+12	5.737+12	.996347	.033495	2.0005	6.626-01
14	4.642-03	1.843+04	8.332-03	11589.9	2.562+01	1.856-11	8.427+12	7.582+12	.995931	.031515	2.0450	7.494-01
15	6.813-03	1.970+04	1.104-02	11678.3	3.385+01	2.435-11	1.106+13	9.941+12	.995458	.029371	2.0957	8.545-01
16	1.000-02	2.094+04	1.451-02	11766.0	4.437+01	3.169-11	1.439+13	1.292+13	.994939	.027468	2.1513	9.797-01
17	1.468-02	2.217+04	1.894-02	11859.8	5.772+01	4.091-11	1.857+13	1.668+13	.994399	.026134	2.2097	1.126+00
18	2.154-02	2.339+04	2.461-02	11969.2	7.465+01	5.244-11	2.381+13	2.136+13	.993889	.025794	2.2682	1.293+00
19	3.162-02	2.462+04	3.187-02	12104.1	9.617+01	6.682-11	3.034+13	2.722+13	.993465	.026829	2.3247	1.477+00
20	4.642-02	2.586+04	4.125-02	12280.9	1.237+02	8.471-11	3.846+13	3.451+13	.993223	.030243	2.3773	1.671+00
21	6.813-02	2.714+04	5.350-02	12508.4	1.594+02	1.071-10	4.862+13	4.366+13	.993194	.037222	2.4243	1.865+00
22	1.000-01	2.849+04	6.973-02	12804.0	2.062+02	1.352-10	6.140+13	5.522+13	.993401	.050864	2.4641	2.049+00
23	1.468-01	2.992+04	9.165-02	13181.8	2.688+02	1.710-10	7.764+13	7.007+13	.993794	.077138	2.4952	2.207+00
24	2.154-01	3.149+04	1.218-01	13659.8	3.546+02	2.170-10	9.853+13	8.947+13	.994289	.128524	2.5174	2.331+00
25	3.162-01	3.321+04	1.642-01	14258.2	4.742+02	2.766-10	1.256+14	1.154+14	.994790	.226883	2.5312	2.418+00
26	4.642-01	3.513+04	2.246-01	14994.7	6.446+02	3.543-10	1.609+14	1.505+14	.995217	.392264	2.5379	2.471+00
27	6.813-01	3.730+04	3.121-01	15892.4	8.911+02	4.570-10	2.075+14	1.986+14	.995538	.609392	2.5369	2.488+00
28	1.000+00	3.974+04	4.401-01	16958.0	1.251+03	5.958-10	2.705+14	2.642+14	.995749	.799041	2.5329	2.491+00
29	1.468+00	4.249+04	6.287-01	18201.7	1.785+03	7.869-10	3.572+14	3.530+14	.995872	.912435	2.5217	2.469+00
30	2.154+00	4.555+04	9.076-01	19607.7	2.575+03	1.051-09	4.773+14	4.742+14	.995925	.963816	2.5096	2.458+00
31	3.162+00	4.889+04	1.317+00	21194.9	3.739+03	1.410-09	6.403+14	6.374+14	.995941	.985069	2.5003	2.473+00
32	4.642+00	5.250+04	1.908+00	22951.2	5.421+03	1.887-09	8.569+14	8.538+14	.995936	.993562	2.5020	2.534+00
33	6.813+00	5.636+04	2.750+00	24952.5	7.813+03	2.502-09	1.136+15	1.132+15	.995937	.997230	2.5079	2.626+00
34	1.000+01	6.046+04	3.930+00	27158.0	1.116+04	3.281-09	1.490+15	1.485+15	.995939	.999268	2.5258	2.776+00
35	1.468+01	6.480+04	5.557+00	29706.8	1.574+04	4.232-09	1.921+15	1.916+15	.995968	1.003113	2.5461	2.973+00
36	2.154+01	6.940+04	7.761+00	32466.3	2.191+04	5.384-09	2.444+15	2.442+15	.996003	1.020416	2.5759	3.260+00
37	3.162+01	7.924+04	1.067+01	35663.2	2.997+04	6.676-09	3.031+15	3.055+15	.996141	1.102134	2.6111	3.665+00
38	4.642+01	7.924+04	1.436+01	39090.1	4.001+04	8.039-09	3.649+15	3.763+15	.996403	1.321914	2.6640	4.357+00
39	6.813+01	8.451+04	1.893+01	43088.7	5.225+04	9.371-09	4.254+15	4.533+15	.996751	1.674393	2.7082	5.173+00
40	1.000+02	9.029+04	2.478+01	47301.1	6.780+04	1.098-08	4.984+15	5.414+15	.996961	1.887642	2.6912	5.704+00



TEFF = 16000

LOG G = 4.0

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	9.459-05	10195.4	9.386-01	7.737-13	3.512+11	3.165+11	.998308	.020905	1.8522	3.340-01
2	4.642-05	4.693+02	1.370-04	10470.8	1.359+00	1.090-12	4.950+11	4.465+11	.998308	.031956	1.8189	3.448-01
3	6.813-05	9.308+02	1.976-04	10490.0	1.962+00	1.572-12	7.135+11	6.428+11	.997963	.023603	1.8774	3.681-01
4	1.000-04	1.376+03	2.812-04	10571.4	2.791+00	2.218-12	1.007+12	9.068+11	.997660	.021011	1.9185	3.944-01
5	1.468-04	1.810+03	3.951-04	10662.3	3.919+00	3.090-12	1.403+12	1.263+12	.997339	.019343	1.9538	4.262-01
6	2.154-04	2.233+03	5.493-04	10770.1	5.447+00	4.252-12	1.930+12	1.737+12	.997025	.018749	1.9814	4.634-01
7	3.162-04	2.650+03	7.566-04	10884.0	7.500+00	5.792-12	2.630+12	2.364+12	.996700	.018536	2.0063	5.077-01
8	4.642-04	3.059+03	1.033-03	11000.5	1.024+01	7.822-12	3.551+12	3.192+12	.996358	.018503	2.0312	5.605-01
9	6.813-04	3.463+03	1.400-03	11119.3	1.386+01	1.048-11	4.757+12	4.274+12	.995999	.018634	2.0553	6.231-01
10	1.000-03	3.860+03	1.881-03	11229.5	1.862+01	1.394-11	6.327+12	5.683+12	.995583	.018396	2.0855	6.995-01
11	1.468-03	4.250+03	2.508-03	11330.5	2.480+01	1.840-11	8.355+12	7.500+12	.995096	.017800	2.1228	7.925-01
12	2.154-03	4.633+03	3.315-03	11423.4	3.276+01	2.412-11	1.095+13	9.825+12	.994526	.016903	2.1668	9.056-01
13	3.162-03	5.008+03	4.349-03	11509.3	4.294+01	3.138-11	1.425+13	1.277+13	.993875	.015900	2.2164	1.042+00
14	4.642-03	5.375+03	5.662-03	11590.0	5.584+01	4.055-11	1.841+13	1.648+13	.993125	.014806	2.2713	1.208+00
15	6.813-03	5.736+03	7.322-03	11668.8	7.211+01	5.203-11	2.362+13	2.113+13	.992284	.013766	2.3305	1.405+00
16	1.000-02	6.091+03	9.414-03	11751.6	9.254+01	6.634-11	3.012+13	2.693+13	.991394	.012972	2.3924	1.637+00
17	1.468-02	6.443+03	1.205-02	11847.3	1.182+02	8.410-11	3.818+13	3.410+13	.990534	.012614	2.4547	1.903+00
18	2.154-02	6.796+03	1.539-02	11964.0	1.506+02	1.061-10	4.817+13	4.299+13	.989797	.012842	2.5154	2.202+00
19	3.162-02	7.152+03	1.964-02	12108.4	1.916+02	1.334-10	6.057+13	5.403+13	.989256	.013796	2.5730	2.530+00
20	4.642-02	7.517+03	2.509-02	12291.1	2.439+02	1.674-10	7.599+13	6.779+13	.989025	.015908	2.6260	2.875+00
21	6.813-02	7.895+03	3.220-02	12525.1	3.117+02	2.099-10	9.528+13	8.504+13	.989192	.020053	2.6727	3.218+00
22	1.000-01	8.294+03	4.160-02	12825.3	4.012+02	2.635-10	1.196+14	1.069+14	.989750	.028010	2.7110	3.537+00
23	1.468-01	8.722+03	5.429-02	13207.1	5.213+02	3.321-10	1.508+14	1.351+14	.990615	.043358	2.7403	3.808+00
24	2.154-01	9.189+03	7.180-02	13688.7	6.865+02	4.211-10	1.912+14	1.721+14	.991638	.074388	2.7601	4.010+00
25	3.162-01	9.706+03	9.650-02	14291.8	9.191+02	5.378-10	2.442+14	2.217+14	.992658	.138795	2.7707	4.135+00
26	4.642-01	1.029+04	1.319-01	15040.1	1.253+03	6.916-10	3.140+14	2.892+14	.993538	.263907	2.7749	4.204+00
27	6.813-01	1.094+04	1.833-01	15948.2	1.736+03	8.941-10	4.059+14	3.823+14	.994198	.465809	2.7747	4.244+00
28	1.000+00	1.167+04	2.581-01	17018.5	2.439+03	1.164-09	5.283+14	5.096+14	.994635	.689341	2.7723	4.281+00
29	1.468+00	1.249+04	3.676-01	18258.1	3.470+03	1.531-09	6.949+14	6.817+14	.994903	.851783	2.7612	4.261+00
30	2.154+00	1.340+04	5.292-01	19656.3	4.995+03	2.037-09	9.250+14	9.154+14	.995043	.935586	2.7481	4.239+00
31	3.162+00	1.440+04	7.664-01	21237.1	7.236+03	2.727-09	1.238+15	1.230+15	.995112	.972660	2.7384	4.264+00
32	4.642+00	1.548+04	1.109+00	22990.3	1.047+04	3.643-09	1.654+15	1.646+15	.995140	.988078	2.7404	4.377+00
33	6.813+00	1.664+04	1.594+00	24985.4	1.505+04	4.817-09	2.187+15	2.178+15	.995164	.994754	2.7504	4.579+00
34	1.000+01	1.786+04	2.269+00	27193.0	2.141+04	6.294-09	2.858+15	2.847+15	.995186	.997776	2.7695	4.868+00
35	1.468+01	1.915+04	3.197+00	29719.6	3.013+04	8.103-09	3.679+15	3.665+15	.995230	1.000747	2.7906	5.213+00
36	2.154+01	2.053+04	4.457+00	32500.0	4.193+04	1.031-08	4.679+15	4.668+15	.995279	1.010325	2.8170	5.683+00
37	3.162+01	2.198+04	6.136+00	35664.7	5.758+04	1.287-08	5.841+15	5.854+15	.995385	1.053860	2.8484	6.326+00
38	4.642+01	2.349+04	8.296+00	39126.0	7.757+04	1.568-08	7.119+15	7.242+15	.995630	1.203183	2.8954	7.400+00
39	6.813+01	2.505+04	1.096+01	43046.3	1.020+05	1.845-08	8.375+15	8.784+15	.996017	1.511181	2.9456	8.898+00
40	1.000+02	2.676+04	1.433+01	47372.7	1.327+05	2.158-08	9.796+15	1.054+16	.996342	1.790949	2.9493	1.015+01

TEFF = 16000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	7.998-05	10171.7	2.518+00	2.082-12	9.453+11	8.492+11	.996822	.007486	2.0806	4.079-01
2	4.642-05	1.375+02	1.125-04	10519.7	3.544+00	2.831-12	1.285+12	1.156+12	.997185	.014660	1.9960	4.235-01
3	6.813-05	2.751+02	1.599-04	10568.0	5.038+00	4.007-12	1.819+12	1.634+12	.996624	.011954	2.0567	4.685-01
4	1.000-04	4.124+02	2.244-04	10655.9	7.069+00	5.579-12	2.533+12	2.274+12	.996094	.010809	2.1028	5.210-01
5	1.468-04	5.420+02	3.092-04	10755.0	9.738+00	7.616-12	3.458+12	3.103+12	.995583	.010317	2.1387	5.814-01
6	2.154-04	6.676+02	4.205-04	10866.6	1.324+01	1.025-11	4.654+12	4.175+12	.995095	.010250	2.1630	6.510-01
7	3.162-04	7.901+02	5.659-04	10977.3	1.782+01	1.366-11	6.201+12	5.559+12	.994572	.010205	2.1882	7.338-01
8	4.642-04	9.099+02	7.545-04	11082.4	2.375+01	1.804-11	8.189+12	7.337+12	.993984	.010057	2.2184	8.335-01
9	6.813-04	1.027+03	9.972-04	11180.0	3.138+01	2.363-11	1.073+13	9.606+12	.993306	.009766	2.2549	9.540-01
10	1.000-03	1.142+03	1.307-03	11270.2	4.114+01	3.074-11	1.395+13	1.248+13	.992518	.009341	2.2975	1.100+00
11	1.468-03	1.255+03	1.701-03	11354.7	5.350+01	3.970-11	1.802+13	1.611+13	.991616	.008845	2.3456	1.275+00
12	2.154-03	1.365+03	2.198-03	11435.6	6.910+01	5.093-11	2.312+13	2.064+13	.990603	.008347	2.3975	1.486+00
13	3.162-03	1.473+03	2.823-03	11511.7	8.869+01	6.498-11	2.950+13	2.630+13	.989434	.007801	2.4539	1.738+00
14	4.642-03	1.580+03	3.606-03	11588.2	1.132+02	8.244-11	3.743+13	3.332+13	.988172	.007349	2.5131	2.038+00
15	6.813-03	1.686+03	4.585-03	11666.5	1.439+02	1.041-10	4.726+13	4.202+13	.986805	.006966	2.5752	2.392+00
16	1.000-02	1.790+03	5.810-03	11750.3	1.821+02	1.309-10	5.943+13	5.277+13	.985384	.006695	2.6389	2.807+00
17	1.468-02	1.895+03	7.345-03	11847.1	2.299+02	1.640-10	7.447+13	6.603+13	.984040	.006625	2.7022	3.281+00
18	2.154-02	2.000+03	9.277-03	11964.0	2.900+02	2.050-10	9.305+13	8.241+13	.982909	.006831	2.7634	3.813+00
19	3.162-02	2.107+03	1.173-02	12110.2	3.660+02	2.556-10	1.161+14	1.027+14	.982197	.007469	2.8208	4.391+00
20	4.642-02	2.217+03	1.487-02	12296.7	4.632+02	3.186-10	1.447+14	1.280+14	.982009	.008724	2.8735	5.001+00
21	6.813-02	2.331+03	1.895-02	12534.9	5.889+02	3.975-10	1.805+14	1.598+14	.982421	.010992	2.9212	5.624+00
22	1.000-01	2.452+03	2.433-02	12837.9	7.543+02	4.969-10	2.256+14	2.002+14	.983613	.015459	2.9590	6.185+00
23	1.468-01	2.582+03	3.160-02	13224.6	9.774+02	6.242-10	2.834+14	2.521+14	.985350	.024332	2.9867	6.647+00
24	2.154-01	2.725+03	4.164-02	13715.2	1.285+03	7.899-10	3.586+14	3.203+14	.987383	.042900	3.0052	6.986+00
25	3.162-01	2.883+03	5.583-02	14326.0	1.719+03	1.009-09	4.579+14	4.117+14	.989342	.082835	3.0150	7.194+00
26	4.642-01	3.061+03	7.624-02	15078.0	2.344+03	1.299-09	5.899+14	5.362+14	.991004	.168212	3.0175	7.289+00
27	6.813-01	3.261+03	1.059-01	15987.9	3.251+03	1.685-09	7.650+14	7.087+14	.992252	.329308	3.0151	7.338+00
28	1.000+00	3.485+03	1.491-01	17052.4	4.573+03	2.196-09	9.968+14	9.463+14	.993083	.550493	3.0130	7.422+00
29	1.468+00	3.735+03	2.121-01	18293.8	6.501+03	2.878-09	1.307+15	1.269+15	.993621	.759801	3.0034	7.427+00
30	2.154+00	4.013+03	3.046-01	19685.4	9.335+03	3.816-09	1.732+15	1.704+15	.993924	.887949	2.9909	7.414+00
31	3.162+00	4.318+03	4.397-01	21265.5	1.348+04	5.082-09	2.307+15	2.285+15	.994102	.950904	2.9849	7.528+00
32	4.642+00	4.647+03	6.328-01	23012.2	1.940+04	6.751-09	3.065+15	3.044+15	.994197	.978276	2.9903	7.793+00
33	6.813+00	4.998+03	9.055-01	25003.2	2.775+04	8.885-09	4.034+15	4.012+15	.994271	.990303	2.9991	8.129+00
34	1.000+01	5.371+03	1.286+00	27209.0	3.939+04	1.159-08	5.260+15	5.234+15	.994325	.995498	3.0179	8.633+00
35	1.468+01	5.768+03	1.809+00	29733.1	5.538+04	1.490-08	6.766+15	6.736+15	.994394	.998725	3.0385	9.240+00
36	2.154+01	6.190+03	2.521+00	32518.3	7.710+04	1.896-08	8.610+15	8.576+15	.994464	1.004875	3.0639	1.005+01
37	3.162+01	6.637+03	3.473+00	35673.9	1.061+05	2.375-08	1.078+16	1.077+16	.994562	1.029526	3.0927	1.112+01
38	4.642+01	7.106+03	4.714+00	39136.4	1.437+05	2.919-08	1.325+16	1.337+16	.994762	1.121586	3.1320	1.276+01
39	6.813+01	7.592+03	6.267+00	43049.4	1.906+05	3.475-08	1.578+16	1.630+16	.995166	1.362859	3.1781	1.517+01
40	1.000+02	8.117+03	8.223+00	47406.7	2.496+05	4.086-08	1.855+16	1.970+16	.995594	1.656624	3.1943	1.773+01

TEFF = 18000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.023-04	11299.7	9.428-02	6.716-14	3.049+10	2.992+10	.999470	.810586	1.8733	3.065-01
2	4.642-05	6.121+03	1.507-04	11669.8	1.391-01	9.568-14	4.344+10	4.289+10	.999437	.874798	1.8557	3.096-01
3	6.813-05	1.217+04	2.207-04	11722.5	2.042-01	1.399-13	6.353+10	6.253+10	.999380	.843403	1.8587	3.107-01
4	1.000-04	1.821+04	3.230-04	11792.2	2.990-01	2.041-13	9.266+10	9.090+10	.999319	.811787	1.8618	3.124-01
5	1.468-04	2.425+04	4.722-04	11861.1	4.373-01	2.973-13	1.350+11	1.319+11	.999251	.775285	1.8653	3.148-01
6	2.154-04	3.028+04	6.891-04	11930.2	6.383-01	4.323-13	1.963+11	1.910+11	.999177	.734161	1.8702	3.181-01
7	3.162-04	3.630+04	1.004-03	11998.2	9.292-01	6.274-13	2.848+11	2.758+11	.999093	.688258	1.8770	3.228-01
8	4.642-04	4.230+04	1.457-03	12068.3	1.348+00	9.072-13	4.119+11	3.968+11	.999001	.639661	1.8894	3.295-01
9	6.813-04	4.825+04	2.107-03	12152.0	1.947+00	1.304-12	5.920+11	5.678+11	.998901	.595605	1.9041	3.387-01
10	1.000-03	5.416+04	3.031-03	12254.8	2.795+00	1.860-12	8.446+11	8.069+11	.998794	.560581	1.9190	3.508-01
11	1.468-03	6.004+04	4.335-03	12377.2	3.989+00	2.632-12	1.195+12	1.139+12	.998682	.535573	1.9326	3.663-01
12	2.154-03	6.587+04	6.160-03	12514.8	5.656+00	3.695-12	1.678+12	1.596+12	.998564	.518501	1.9446	3.856-01
13	3.162-03	7.167+04	8.694-03	12655.8	7.963+00	5.149-12	2.338+12	2.219+12	.998438	.503420	1.9576	4.096-01
14	4.642-03	7.740+04	1.218-02	12788.4	1.112+01	7.125-12	3.235+12	3.065+12	.998300	.484733	1.9767	4.396-01
15	6.813-03	8.305+04	1.691-02	12906.6	1.539+01	9.784-12	4.442+12	4.197+12	.998147	.460339	2.0050	4.770-01
16	1.000-02	8.862+04	2.328-02	13015.0	2.109+01	1.331-11	6.045+12	5.693+12	.997979	.433120	2.0416	5.228-01
17	1.468-02	9.410+04	3.177-02	13126.3	2.860+01	1.793-11	8.139+12	7.645+12	.997801	.409450	2.0845	5.775-01
18	2.154-02	9.953+04	4.303-02	13255.2	3.842+01	2.386-11	1.083+13	1.016+13	.997622	.395372	2.1308	6.407-01
19	3.162-02	1.049+05	5.792-02	13410.6	5.117+01	3.142-11	1.426+13	1.337+13	.997449	.393540	2.1785	7.119-01
20	4.642-02	1.104+05	7.759-02	13605.3	6.770+01	4.095-11	1.859+13	1.745+13	.997292	.407871	2.2258	7.894-01
21	6.813-02	1.160+05	1.037-01	13855.1	8.917+01	5.287-11	2.400+13	2.262+13	.997164	.443588	2.2708	8.697-01
22	1.000-01	1.218+05	1.387-01	14187.4	1.173+02	6.769-11	3.073+13	2.915+13	.997079	.509483	2.3121	9.479-01
23	1.468-01	1.280+05	1.861-01	14619.3	1.546+02	8.615-11	3.911+13	3.748+13	.997034	.604447	2.3470	1.019+00
24	2.154-01	1.348+05	2.516-01	15172.5	2.050+02	1.094-10	4.968+13	4.817+13	.997020	.719389	2.3728	1.074+00
25	3.162-01	1.422+05	3.438-01	15870.1	2.750+02	1.396-10	6.337+13	6.215+13	.997022	.829344	2.3879	1.107+00
26	4.642-01	1.505+05	4.762-01	16730.8	3.748+02	1.797-10	8.158+13	8.068+13	.997025	.910747	2.3942	1.124+00
27	6.813-01	1.599+05	6.687-01	17761.5	5.195+02	2.341-10	1.063+14	1.057+14	.997021	.958194	2.3943	1.131+00
28	1.000+00	1.703+05	9.504-01	18986.5	7.317+02	3.080-10	1.398+14	1.393+14	.997009	.981856	2.3906	1.132+00
29	1.468+00	1.819+05	1.363+00	20400.8	1.043+03	4.085-10	1.854+14	1.850+14	.996988	.992280	2.3855	1.139+00
30	2.154+00	1.945+05	1.959+00	21990.5	1.495+03	5.430-10	2.465+14	2.460+14	.996963	.996634	2.3839	1.163+00
31	3.162+00	2.081+05	2.811+00	23778.3	2.140+03	7.187-10	3.263+14	3.256+14	.996941	.998567	2.3876	1.204+00
32	4.642+00	2.227+05	4.012+00	25769.0	3.044+03	9.434-10	4.283+14	4.275+14	.996925	.999817	2.3977	1.260+00
33	6.813+00	2.382+05	5.687+00	28018.4	4.293+03	1.223-09	5.554+14	5.546+14	.996924	1.002984	2.4130	1.333+00
34	1.000+01	2.548+05	7.992+00	30545.2	5.988+03	1.564-09	7.099+14	7.100+14	.996943	1.018657	2.4333	1.433+00
35	1.468+01	2.724+05	1.110+01	33369.5	8.219+03	1.958-09	8.887+14	8.955+14	.997019	1.090870	2.4653	1.584+00
36	2.154+01	2.910+05	1.511+01	36570.2	1.100+04	2.361-09	1.072+15	1.105+15	.997234	1.327664	2.5110	1.839+00
37	3.162+01	3.108+05	2.016+01	40077.2	1.432+04	2.759-09	1.253+15	1.336+15	.997480	1.670054	2.5532	2.139+00
38	4.642+01	3.329+05	2.676+01	44065.6	1.853+04	3.214-09	1.459+15	1.588+15	.997646	1.889606	2.5590	2.324+00
39	6.813+01	3.588+05	3.587+01	48374.2	2.439+04	3.838-09	1.742+15	1.909+15	.997731	1.962869	2.5424	2.442+00
40	1.000+02	3.892+05	4.858+01	53295.8	3.277+04	4.689-09	2.129+15	2.338+15	.997795	1.998862	2.5167	2.581+00

TEFF = 18000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.024-04	11304.0	3.153-01	2.275-13	1.033+11	9.875+10	.999263	.563695	1.9022	3.076-01
2	4.642-05	1.775+03	1.496-04	11643.8	4.609-01	3.211-13	1.458+11	1.409+11	.999218	.664869	1.8797	3.133-01
3	6.813-05	3.540+03	2.184-04	11679.6	6.731-01	4.693-13	2.131+11	2.044+11	.999134	.596948	1.8891	3.168-01
4	1.000-04	5.301+03	3.182-04	11735.0	9.810-01	6.827-13	3.100+11	2.954+11	.999041	.536371	1.9004	3.221-01
5	1.468-04	7.041+03	4.617-04	11785.2	1.423+00	9.896-13	4.493+11	4.253+11	.998936	.472769	1.9200	3.299-01
6	2.154-04	8.760+03	6.665-04	11849.6	2.053+00	1.424-12	6.464+11	6.084+11	.998821	.418902	1.9421	3.408-01
7	3.162-04	1.046+04	9.560-04	11930.5	2.943+00	2.032-12	9.223+11	8.640+11	.998696	.376452	1.9648	3.553-01
8	4.642-04	1.213+04	1.362-03	12030.0	4.187+00	2.871-12	1.304+12	1.218+12	.998563	.345886	1.9866	3.737-01
9	6.813-04	1.378+04	1.925-03	12147.2	5.912+00	4.020-12	1.825+12	1.700+12	.998424	.325569	2.0063	3.967-01
10	1.000-03	1.542+04	2.701-03	12278.3	8.285+00	5.577-12	2.532+12	2.355+12	.998279	.312753	2.0238	4.246-01
11	1.468-03	1.703+04	3.759-03	12416.0	1.152+01	7.672-12	3.483+12	3.236+12	.998126	.303514	2.0415	4.586-01
12	2.154-03	1.862+04	5.190-03	12549.5	1.588+01	1.047-11	4.755+12	4.412+12	.997959	.293179	2.0635	5.002-01
13	3.162-03	2.019+04	7.105-03	12668.3	2.171+01	1.419-11	6.443+12	5.968+12	.997772	.277914	2.0938	5.518-01
14	4.642-03	2.172+04	9.638-03	12770.8	2.939+01	1.908-11	8.663+12	8.005+12	.997559	.258080	2.1339	6.153-01
15	6.813-03	2.323+04	1.296-02	12864.8	3.941+01	2.543-11	1.154+13	1.064+13	.997323	.237435	2.1823	6.922-01
16	1.000-02	2.470+04	1.727-02	12962.8	5.235+01	3.356-11	1.524+13	1.401+13	.997071	.220285	2.2358	7.834-01
17	1.468-02	2.615+04	2.286-02	13074.4	6.898+01	4.388-11	1.992+13	1.829+13	.996814	.209048	2.2913	8.892-01
18	2.154-02	2.759+04	3.008-02	13205.5	9.031+01	5.690-11	2.583+13	2.370+13	.996562	.204564	2.3477	1.009+00
19	3.162-02	2.904+04	3.943-02	13373.9	1.176+02	7.318-11	3.322+13	3.050+13	.996342	.210969	2.4039	1.141+00
20	4.642-02	3.051+04	5.162-02	13590.6	1.529+02	9.349-11	4.244+13	3.905+13	.996173	.231235	2.4572	1.280+00
21	6.813-02	3.202+04	6.764-02	13866.0	1.987+02	1.189-10	5.396+13	4.985+13	.996064	.269325	2.5054	1.422+00
22	1.000-01	3.361+04	8.898-02	14218.0	2.590+02	1.506-10	6.836+13	6.358+13	.996022	.332987	2.5472	1.556+00
23	1.468-01	3.531+04	1.178-01	14666.5	3.396+02	1.904-10	8.646+13	8.126+13	.996039	.430442	2.5812	1.677+00
24	2.154-01	3.716+04	1.575-01	15234.3	4.495+02	2.410-10	1.094+14	1.043+14	.996098	.562810	2.6061	1.773+00
25	3.162-01	3.920+04	2.133-01	15944.8	6.029+02	3.065-10	1.391+14	1.347+14	.996173	.710520	2.6210	1.834+00
26	4.642-01	4.150+04	2.932-01	16827.8	8.220+02	3.934-10	1.786+14	1.752+14	.996245	.839253	2.6268	1.863+00
27	6.813-01	4.408+04	4.095-01	17882.9	1.141+03	5.114-10	2.322+14	2.298+14	.996290	.922055	2.6251	1.870+00
28	1.000+00	4.697+04	5.796-01	19122.2	1.608+03	6.725-10	3.053+14	3.034+14	.996310	.965265	2.6197	1.877+00
29	1.468+00	5.017+04	8.278-01	20530.2	2.289+03	8.913-10	4.046+14	4.030+14	.996305	.984760	2.6125	1.896+00
30	2.154+00	5.364+04	1.186+00	22105.7	3.276+03	1.184-09	5.375+14	5.357+14	.996287	.993161	2.6095	1.940+00
31	3.162+00	5.737+04	1.696+00	23875.7	4.683+03	1.566-09	7.110+14	7.090+14	.996267	.996887	2.6124	2.011+00
32	4.642+00	6.135+04	2.414+00	25843.3	6.655+03	2.056-09	9.335+14	9.311+14	.996252	.998770	2.6229	2.111+00
33	6.813+00	6.560+04	3.412+00	28078.8	9.384+03	2.668-09	1.211+15	1.208+15	.996254	1.000874	2.6392	2.240+00
34	1.000+01	7.011+04	4.779+00	30597.4	1.310+04	3.416-09	1.551+15	1.548+15	.996272	1.008694	2.6615	2.421+00
35	1.468+01	7.488+04	6.616+00	33400.9	1.803+04	4.300-09	1.952+15	1.957+15	.996331	1.046141	2.6924	2.677+00
36	2.154+01	7.987+04	9.004+00	36595.3	2.436+04	5.261-09	2.389+15	2.429+15	.996509	1.189046	2.7351	3.077+00
37	3.162+01	8.505+04	1.198+01	40095.0	3.204+04	6.223-09	2.825+15	2.958+15	.996799	1.484658	2.7889	3.680+00
38	4.642+01	9.062+04	1.571+01	44097.6	4.147+04	7.217-09	3.277+15	3.531+15	.997069	1.791290	2.8148	4.204+00
39	6.813+01	9.698+04	2.070+01	48399.0	5.397+04	8.504-09	3.861+15	4.213+15	.997213	1.927087	2.8081	4.494+00
40	1.000+02	1.045+05	2.761+01	53308.5	7.151+04	1.022-08	4.641+15	5.094+15	.997321	1.999984	2.7811	4.759+00

TEFF = 18000

LCG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.855-05	11296.4	9.759-01	7.157-13	3.249+11	3.016+11	.998953	.286747	1.9647	3.200-01
2	4.642-05	5.336+02	1.431-04	11595.7	1.418+00	1.009-12	4.581+11	4.286+11	.998894	.360671	1.9423	3.295-01
3	6.813-05	1.061+03	2.076-04	11613.9	2.056+00	1.467-12	6.661+11	6.182+11	.998751	.288393	1.9766	3.422-01
4	1.000-04	1.576+03	2.985-04	11670.2	2.956+00	2.104-12	9.552+11	8.821+11	.998601	.244140	2.0112	3.591-01
5	1.468-04	2.079+03	4.248-04	11738.4	4.206+00	2.982-12	1.354+12	1.245+12	.998437	.210478	2.0462	3.808-01
6	2.154-04	2.571+03	5.988-04	11828.9	5.926+00	4.173-12	1.895+12	1.739+12	.998265	.189145	2.0777	4.077-01
7	3.162-04	3.053+03	8.364-04	11937.8	8.271+00	5.775-12	2.622+12	2.402+12	.998087	.176239	2.1052	4.401-01
8	4.642-04	3.527+03	1.158-03	12062.8	1.144+01	7.911-12	3.592+12	3.288+12	.997905	.169488	2.1298	4.788-01
9	6.813-04	3.994+03	1.590-03	12197.9	1.571+01	1.074-11	4.875+12	4.461+12	.997718	.166252	2.1533	5.249-01
10	1.000-03	4.455+03	2.166-03	12331.9	2.138+01	1.446-11	6.565+12	6.004+12	.997516	.163070	2.1770	5.802-01
11	1.468-03	4.909+03	2.928-03	12456.0	2.888+01	1.934-11	8.780+12	8.023+12	.997291	.157623	2.2052	6.473-01
12	2.154-03	5.355+03	3.924-03	12564.1	3.867+01	2.569-11	1.166+13	1.064+13	.997033	.148847	2.2419	7.297-01
13	3.162-03	5.791+03	5.214-03	12658.4	5.134+01	3.386-11	1.537+13	1.401+13	.996736	.137798	2.2893	8.306-01
14	4.642-03	6.219+03	6.872-03	12746.2	6.756+01	4.429-11	2.011+13	1.829+13	.996404	.126630	2.3443	9.523-01
15	6.813-03	6.637+03	8.988-03	12836.3	8.823+01	5.746-11	2.609+13	2.370+13	.996044	.117079	2.4036	1.096+00
16	1.000-02	7.050+03	1.168-02	12938.4	1.144+02	7.397-11	3.358+13	3.048+13	.995676	.110736	2.4652	1.265+00
17	1.468-02	7.459+03	1.511-02	13060.2	1.477+02	9.458-11	4.294+13	3.895+13	.995319	.108174	2.5277	1.457+00
18	2.154-02	7.868+03	1.949-02	13204.7	1.899+02	1.203-10	5.461+13	4.952+13	.994991	.109652	2.5886	1.673+00
19	3.162-02	8.282+03	2.510-02	13381.7	2.437+02	1.523-10	6.915+13	6.274+13	.994718	.116520	2.6466	1.907+00
20	4.642-02	8.706+03	3.237-02	13603.8	3.129+02	1.923-10	8.729+13	7.931+13	.994535	.131561	2.6999	2.152+00
21	6.813-02	9.146+03	4.190-02	13886.1	4.031+02	2.423-10	1.100+14	1.002+14	.994463	.159188	2.7472	2.394+00
22	1.000-01	9.611+03	5.457-02	14245.9	5.223+02	3.053-10	1.386+14	1.270+14	.994508	.207085	2.7870	2.620+00
23	1.468-01	1.011+04	7.172-02	14703.8	6.829+02	3.851-10	1.748+14	1.616+14	.994652	.286522	2.8184	2.817+00
24	2.154-01	1.065+04	9.537-02	15279.7	9.033+02	4.871-10	2.211+14	2.071+14	.994852	.407437	2.8419	2.975+00
25	3.162-01	1.126+04	1.286-01	16014.5	1.212+03	6.181-10	2.806+14	2.675+14	.995086	.574111	2.8569	3.081+00
26	4.642-01	1.193+04	1.760-01	16915.0	1.652+03	7.904-10	3.588+14	3.483+14	.995285	.743805	2.8651	3.156+00
27	6.813-01	1.269+04	2.443-01	17974.9	2.285+03	1.023-09	4.643+14	4.565+14	.995420	.867542	2.8640	3.190+00
28	1.000+00	1.354+04	3.441-01	19210.0	3.211+03	1.340-09	6.082+14	6.024+14	.995501	.938306	2.8564	3.199+00
29	1.468+00	1.449+04	4.898-01	20611.7	4.563+03	1.772-09	8.044+14	7.994+14	.995534	.972144	2.8473	3.229+00
30	2.154+00	1.551+04	6.998-01	22178.2	6.517+03	2.350-09	1.067+15	1.062+15	.995537	.987252	2.8439	3.310+00
31	3.162+00	1.661+04	9.986-01	23936.7	9.297+03	3.104-09	1.409+15	1.404+15	.995531	.994092	2.8466	3.437+00
32	4.642+00	1.779+04	1.417+00	25896.4	1.317+04	4.067-09	1.846+15	1.839+15	.995526	.997238	2.8606	3.642+00
33	6.813+00	1.903+04	1.993+00	28131.1	1.851+04	5.259-09	2.387+15	2.379+15	.995540	.999412	2.8780	3.893+00
34	1.000+01	2.034+04	2.778+00	30606.7	2.576+04	6.723-09	3.052+15	3.044+15	.995564	1.003885	2.9027	4.219+00
35	1.468+01	2.174+04	3.837+00	33453.5	3.547+04	8.461-09	3.841+15	3.839+15	.995617	1.023616	2.9289	4.619+00
36	2.154+01	2.322+04	5.232+00	36578.3	4.819+04	1.047-08	4.754+15	4.789+15	.995750	1.101401	2.9670	5.247+00
37	3.162+01	2.474+04	6.986+00	40140.2	6.400+04	1.253-08	5.687+15	5.861+15	.996062	1.330063	3.0186	6.247+00
38	4.642+01	2.634+04	9.148+00	44050.9	8.324+04	1.461-08	6.633+15	7.052+15	.996406	1.648374	3.0606	7.394+00
39	6.813+01	2.810+04	1.194+01	48426.0	1.079+05	1.706-08	7.743+15	8.396+15	.996641	1.862061	3.0637	8.092+00
40	1.000+02	3.018+04	1.577+01	53383.4	1.419+05	2.030-08	9.214+15	1.009+16	.996811	1.986913	3.0430	8.666+00

TEFF = 18000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	IGN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.758-05	11274.8	2.757+00	2.042-12	9.271+11	8.449+11	.998454	.122535	2.1134	3.635-01
2	4.642-05	1.604+02	1.254-04	11595.4	3.949+00	2.836-12	1.288+12	1.180+12	.998408	.173200	2.0733	3.798-01
3	6.813-05	3.182+02	1.796-04	11625.0	5.656+00	4.061-12	1.844+12	1.682+12	.998176	.136258	2.1275	4.112-01
4	1.000-04	4.724+02	2.537-04	11697.1	7.989+00	5.708-12	2.591+12	2.358+12	.997938	.116102	2.1751	4.490-01
5	1.468-04	6.197+02	3.528-04	11787.7	1.111+01	7.880-12	3.578+12	3.251+12	.997694	.104229	2.2163	4.939-01
6	2.154-04	7.626+02	4.847-04	11898.7	1.526+01	1.073-11	4.869+12	4.421+12	.997453	.098273	2.2511	5.464-01
7	3.162-04	9.024+02	6.591-04	12021.1	2.074+01	1.444-11	6.554+12	5.946+12	.997207	.095055	2.2808	6.081-01
8	4.642-04	1.040+03	8.884-04	12147.9	2.794+01	1.925-11	8.740+12	7.927+12	.996951	.093168	2.3077	6.808-01
9	6.813-04	1.174+03	1.188-03	12271.4	3.736+01	2.548-11	1.157+13	1.049+13	.996673	.091064	2.3350	7.677-01
10	1.000-03	1.307+03	1.576-03	12385.0	4.954+01	3.349-11	1.521+13	1.377+13	.996355	.087353	2.3672	8.731-01
11	1.468-03	1.437+03	2.075-03	12484.0	6.519+01	4.374-11	1.986+13	1.797+13	.995985	.081910	2.4081	1.002+00
12	2.154-03	1.564+03	2.710-03	12569.9	8.510+01	5.674-11	2.576+13	2.328+13	.995552	.075227	2.4598	1.159+00
13	3.162-03	1.689+03	3.513-03	12653.1	1.103+02	7.307-11	3.317+13	2.995+13	.995070	.069039	2.5199	1.348+00
14	4.642-03	1.811+03	4.525-03	12742.0	1.419+02	9.343-11	4.242+13	3.825+13	.994561	.064282	2.5836	1.573+00
15	6.813-03	1.932+03	5.799-03	12838.1	1.816+02	1.188-10	5.391+13	4.858+13	.994033	.060879	2.6475	1.833+00
16	1.000-02	2.052+03	7.403-03	12943.7	2.316+02	1.502-10	6.820+13	6.141+13	.993493	.058725	2.7116	2.135+00
17	1.468-02	2.171+03	9.429-03	13065.0	2.946+02	1.893-10	8.594+13	7.733+13	.992974	.058241	2.7748	2.479+00
18	2.154-02	2.292+03	1.200-02	13209.5	3.741+02	2.378-10	1.080+14	9.712+13	.992511	.059928	2.8359	2.861+00
19	3.162-02	2.415+03	1.528-02	13388.2	4.755+02	2.981-10	1.353+14	1.218+14	.992165	.064947	2.8930	3.271+00
20	4.642-02	2.542+03	1.951-02	13613.0	6.059+02	3.735-10	1.696+14	1.527+14	.991966	.074531	2.9454	3.699+00
21	6.813-02	2.674+03	2.505-02	13898.4	7.758+02	4.682-10	2.126+14	1.918+14	.991953	.091621	2.9918	4.123+00
22	1.000-01	2.814+03	3.242-02	14262.8	1.001+03	5.879-10	2.669+14	2.417+14	.992173	.123138	3.0298	4.503+00
23	1.468-01	2.965+03	4.242-02	14739.0	1.306+03	7.400-10	3.359+14	3.063+14	.992592	.181264	3.0600	4.826+00
24	2.154-01	3.131+03	5.624-02	15334.6	1.727+03	9.354-10	4.247+14	3.916+14	.993091	.280308	3.0822	5.085+00
25	3.162-01	3.315+03	7.565-02	16074.9	2.317+03	1.187-09	5.390+14	5.056+14	.993585	.431993	3.0972	5.284+00
26	4.642-01	3.519+03	1.032-01	16974.1	3.154+03	1.516-09	6.881+14	6.584+14	.993999	.618444	3.1056	5.435+00
27	6.813-01	3.749+03	1.428-01	18034.3	4.356+03	1.953-09	8.868+14	8.636+14	.994299	.784225	3.1053	5.519+00
28	1.000+00	4.006+03	2.004-01	19265.3	6.105+03	2.548-09	1.157+15	1.139+15	.994495	.893103	3.0976	5.548+00
29	1.468+00	4.292+03	2.843-01	20662.8	8.655+03	3.359-09	1.525+15	1.511+15	.994603	.950003	3.0881	5.605+00
30	2.154+00	4.603+03	4.049-01	22223.9	1.232+04	4.440-09	2.016+15	2.003+15	.994654	.976693	3.0871	5.789+00
31	3.162+00	4.936+03	5.750-01	23979.8	1.749+04	5.838-09	2.651+15	2.637+15	.994685	.989091	3.0925	6.065+00
32	4.642+00	5.290+03	8.116-01	25931.3	2.468+04	7.616-09	3.457+15	3.441+15	.994705	.994689	3.1070	6.435+00
33	6.813+00	5.665+03	1.138+00	28158.5	3.457+04	9.823-09	4.459+15	4.441+15	.994739	.997715	3.1243	6.878+00
34	1.000+01	6.065+03	1.582+00	30637.5	4.804+04	1.254-08	5.695+15	5.673+15	.994780	1.001178	3.1476	7.443+00
35	1.468+01	6.490+03	2.183+00	33471.6	6.617+04	1.581-08	7.177+15	7.157+15	.994843	1.012237	3.1730	8.127+00
36	2.154+01	6.940+03	2.980+00	36608.9	9.016+04	1.965-08	8.921+15	8.939+15	.994955	1.056850	3.2058	9.121+00
37	3.162+01	7.410+03	4.000+00	40153.1	1.207+05	2.380-08	1.080+16	1.100+16	.995232	1.209363	3.2508	1.066+01
38	4.642+01	7.897+03	5.262+00	44076.3	1.583+05	2.801-08	1.271+16	1.332+16	.995624	1.489145	3.2958	1.272+01
39	6.813+01	8.423+03	6.855+00	48442.9	2.055+05	3.264-08	1.482+16	1.592+16	.995968	1.764579	3.3123	1.437+01
40	1.000+02	9.033+03	8.994+00	53392.0	2.688+05	3.856-08	1.751+16	1.910+16	.996219	1.946762	3.3021	1.565+01

TEFF = 20000

LOG G = 3.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.015-04	12260.7	8.837-02	5.752-14	2.611+10	2.606+10	.999526	.975747	2.0828	3.105-01
2	4.642-05	7.045+03	1.492-04	12689.2	1.305-01	8.203-14	3.724+10	3.719+10	.999496	.984862	2.0554	3.118-01
3	6.813-05	1.404+04	2.187-04	12746.4	1.921-01	1.202-13	5.459+10	5.449+10	.999447	.980196	2.0554	3.130-01
4	1.000-04	2.101+04	3.203-04	12822.6	2.821-01	1.756-13	7.973+10	7.953+10	.999394	.975031	2.0559	3.145-01
5	1.468-04	2.798+04	4.685-04	12904.7	4.135-01	2.558-13	1.161+11	1.158+11	.999336	.968939	2.0571	3.166-01
6	2.154-04	3.496+04	6.844-04	12995.8	6.047-01	3.717-13	1.687+11	1.681+11	.999274	.962049	2.0588	3.193-01
7	3.162-04	4.195+04	9.982-04	13092.3	8.825-01	5.387-13	2.446+11	2.434+11	.999206	.954139	2.0611	3.230-01
8	4.642-04	4.895+04	1.453-03	13188.3	1.284+00	7.787-13	3.535+11	3.514+11	.999131	.944632	2.0663	3.280-01
9	6.813-04	5.594+04	2.108-03	13281.7	1.862+00	1.122-12	5.094+11	5.059+11	.999050	.933067	2.0746	3.346-01
10	1.000-03	6.291+04	3.048-03	13374.9	2.689+00	1.610-12	7.310+11	7.248+11	.998962	.919357	2.0865	3.434-01
11	1.468-03	6.986+04	4.388-03	13476.0	3.863+00	2.297-12	1.043+12	1.032+12	.998867	.904578	2.1021	3.546-01
12	2.154-03	7.678+04	6.285-03	13599.2	5.515+00	3.253-12	1.477+12	1.460+12	.998768	.891502	2.1194	3.689-01
13	3.162-03	8.368+04	8.953-03	13751.8	7.825+00	4.566-12	2.073+12	2.048+12	.998664	.882451	2.1356	3.863-01
14	4.642-03	9.057+04	1.268-02	13928.5	1.103+01	6.359-12	2.887+12	2.849+12	.998558	.877221	2.1505	4.073-01
15	6.813-03	9.746+04	1.784-02	14116.4	1.545+01	8.791-12	3.991+12	3.937+12	.998447	.873770	2.1654	4.329-01
16	1.000-02	1.043+05	2.495-02	14296.3	2.150+01	1.208-11	5.484+12	5.406+12	.998327	.868725	2.1825	4.639-01
17	1.468-02	1.112+05	3.463-02	14458.0	2.966+01	1.649-11	7.487+12	7.374+12	.998198	.860406	2.2063	5.018-01
18	2.154-02	1.180+05	4.770-02	14608.5	4.055+01	2.233-11	1.014+13	9.970+12	.998060	.850010	2.2396	5.475-01
19	3.162-02	1.247+05	6.525-02	14772.6	5.490+01	2.991-11	1.358+13	1.334+13	.997920	.842424	2.2800	6.000-01
20	4.642-02	1.315+05	8.874-02	14980.3	7.369+01	3.958-11	1.797+13	1.766+13	.997784	.843495	2.3223	6.570-01
21	6.813-02	1.385+05	1.203-01	15255.2	9.829+01	5.182-11	2.352+13	2.315+13	.997661	.856274	2.3637	7.151-01
22	1.000-01	1.457+05	1.632-01	15636.9	1.307+02	6.716-11	3.049+13	3.007+13	.997561	.882456	2.4019	7.696-01
23	1.468-01	1.534+05	2.220-01	16131.2	1.741+02	8.656-11	3.930+13	3.889+13	.997479	.914083	2.4334	8.173-01
24	2.154-01	1.617+05	3.040-01	16771.3	2.332+02	1.113-10	5.054+13	5.017+13	.997418	.945005	2.4572	8.535-01
25	3.162-01	1.709+05	4.202-01	17581.1	3.155+02	1.435-10	6.514+13	6.482+13	.997372	.968988	2.4725	8.784-01
26	4.642-01	1.811+05	5.867-01	18565.3	4.320+02	1.859-10	8.441+13	8.414+13	.997332	.984042	2.4814	8.966-01
27	6.813-01	1.923+05	8.267-01	19738.5	5.987+02	2.423-10	1.100+14	1.098+14	.997297	.992309	2.4866	9.124-01
28	1.000+00	2.048+05	1.173+00	21115.6	8.390+02	3.173-10	1.441+14	1.437+14	.997266	.996429	2.4866	9.267-01
29	1.468+00	2.184+05	1.671+00	22687.9	1.185+03	4.167-10	1.892+14	1.889+14	.997237	.998367	2.4887	9.523-01
30	2.154+00	2.332+05	2.377+00	24451.6	1.671+03	5.456-10	2.477+14	2.473+14	.997213	.999435	2.4955	9.928-01
31	3.162+00	2.491+05	3.367+00	26436.3	2.347+03	7.089-10	3.218+14	3.213+14	.997198	1.000974	2.5051	1.043+00
32	4.642+00	2.661+05	4.741+00	28650.2	3.275+03	9.121-10	4.141+14	4.138+14	.997194	1.007367	2.5201	1.110+00
33	6.813+00	2.843+05	6.621+00	31151.4	4.516+03	1.155-09	5.244+14	5.256+14	.997223	1.038319	2.5423	1.201+00
34	1.000+01	3.038+05	9.132+00	33962.3	6.118+03	1.426-09	6.476+14	6.572+14	.997334	1.162954	2.5750	1.342+00
35	1.468+01	3.245+05	1.236+01	37115.2	8.064+03	1.695-09	7.694+14	8.045+14	.997552	1.468179	2.6203	1.558+00
36	2.154+01	3.470+05	1.649+01	40639.1	1.041+04	1.967-09	8.932+14	9.624+14	.997751	1.781958	2.6455	1.748+00
37	3.162+01	3.731+05	2.207+01	44583.4	1.353+04	2.315-09	1.051+15	1.148+15	.997865	1.929771	2.6394	1.856+00
38	4.642+01	4.036+05	2.984+01	48901.2	1.797+04	2.795-09	1.269+15	1.393+15	.997927	1.976466	2.6237	1.947+00
39	6.813+01	4.383+05	4.067+01	53753.4	2.437+04	3.445-09	1.564+15	1.718+15	.997970	1.991679	2.6016	2.062+00
40	1.000+02	4.777+05	5.557+01	59257.4	3.349+04	4.308-09	1.956+15	2.149+15	.998007	1.998037	2.5754	2.223+00

TEFF = 20000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.004-04	12225.8	3.040-01	1.992-13	9.043+10	8.967+10	.999346	.914715	2.1031	3.144-01
2	4.642-05	1.997+03	1.471-04	12624.7	4.457-01	2.824-13	1.282+11	1.275+11	.999305	.943000	2.0748	3.171-01
3	6.813-05	3.988+03	2.152-04	12676.6	6.529-01	4.125-13	1.873+11	1.858+11	.999236	.926084	2.0792	3.202-01
4	1.000-04	5.970+03	3.141-04	12747.5	9.538-01	5.997-13	2.722+11	2.697+11	.999162	.907978	2.0850	3.243-01
5	1.468-04	7.944+03	4.570-04	12815.0	1.388+00	8.692-13	3.946+11	3.899+11	.999080	.885573	2.0963	3.302-01
6	2.154-04	9.906+03	6.624-04	12893.4	2.011+00	1.254-12	5.691+11	5.610+11	.998991	.861403	2.1095	3.382-01
7	3.162-04	1.185+04	9.559-04	12977.5	2.901+00	1.799-12	8.166+11	8.027+11	.998895	.835063	2.1249	3.486-01
8	4.642-04	1.379+04	1.372-03	13068.5	4.161+00	2.565-12	1.165+12	1.142+12	.998791	.807441	2.1435	3.620-01
9	6.813-04	1.570+04	1.958-03	13170.6	5.929+00	3.632-12	1.649+12	1.612+12	.998679	.780650	2.1651	3.792-01
10	1.000-03	1.759+04	2.775-03	13291.6	8.389+00	5.099-12	2.315+12	2.257+12	.998562	.758324	2.1885	4.006-01
11	1.468-03	1.946+04	3.905-03	13437.7	1.178+01	7.090-12	3.219+12	3.133+12	.998441	.743692	2.2121	4.268-01
12	2.154-03	2.132+04	5.456-03	13606.0	1.643+01	9.766-12	4.434+12	4.312+12	.998317	.736336	2.2337	4.580-01
13	3.162-03	2.317+04	7.568-03	13781.5	2.274+01	1.335-11	6.061+12	5.890+12	.998188	.731333	2.2531	4.953-01
14	4.642-03	2.500+04	1.042-02	13950.4	3.124+01	1.813-11	8.231+12	7.992+12	.998049	.724134	2.2737	5.401-01
15	6.813-03	2.681+04	1.425-02	14101.3	4.260+01	2.447-11	1.111+13	1.077+13	.997897	.711327	2.3002	5.945-01
16	1.000-02	2.859+04	1.932-02	14231.5	5.759+01	3.281-11	1.490+13	1.441+13	.997730	.691987	2.3371	6.608-01
17	1.468-02	3.035+04	2.599-02	14354.6	7.715+01	4.363-11	1.981+13	1.912+13	.997551	.670765	2.3841	7.399-01
18	2.154-02	3.209+04	3.472-02	14496.2	1.025+02	5.745-11	2.608+13	2.514+13	.997370	.656331	2.4374	8.308-01
19	3.162-02	3.383+04	4.614-02	14688.2	1.353+02	7.482-11	3.397+13	3.273+13	.997202	.659220	2.4926	9.309-01
20	4.642-02	3.559+04	6.115-02	14935.3	1.778+02	9.660-11	4.385+13	4.235+13	.997052	.678962	2.5442	1.037+00
21	6.813-02	3.740+04	8.103-02	15251.6	2.332+02	1.239-10	5.625+13	5.452+13	.996926	.715678	2.5911	1.142+00
22	1.000-01	3.930+04	1.077-01	15658.1	3.067+02	1.583-10	7.185+13	7.002+13	.996828	.768229	2.6317	1.240+00
23	1.468-01	4.133+04	1.441-01	16183.7	4.056+02	2.018-10	9.163+13	8.985+13	.996761	.830531	2.6644	1.323+00
24	2.154-01	4.354+04	1.947-01	16855.5	5.414+02	2.579-10	1.171+14	1.155+14	.996719	.890902	2.6880	1.385+00
25	3.162-01	4.598+04	2.663-01	17693.4	7.324+02	3.316-10	1.505+14	1.492+14	.996692	.938011	2.7018	1.424+00
26	4.642-01	4.870+04	3.693-01	18714.9	1.006+03	4.298-10	1.951+14	1.941+14	.996669	.968228	2.7076	1.449+00
27	6.813-01	5.171+04	5.177-01	19919.8	1.399+03	5.613-10	2.548+14	2.538+14	.996644	.984656	2.7101	1.477+00
28	1.000+00	5.501+04	7.310-01	21297.8	1.964+03	7.367-10	3.345+14	3.335+14	.996614	.992680	2.7093	1.511+00
29	1.468+00	5.860+04	1.035+00	22860.5	2.771+03	9.680-10	4.395+14	4.383+14	.996584	.996512	2.7101	1.562+00
30	2.154+00	6.246+04	1.465+00	24599.8	3.908+03	1.268-09	5.759+14	5.745+14	.996555	.998383	2.7156	1.635+00
31	3.162+00	6.659+04	2.064+00	26551.5	5.488+03	1.650-09	7.493+14	7.476+14	.996536	.999799	2.7245	1.727+00
32	4.642+00	7.099+04	2.892+00	28728.9	7.657+03	2.127-09	9.657+14	9.639+14	.996528	1.003032	2.7429	1.847+00
33	6.813+00	7.567+04	4.020+00	31241.0	1.059+04	2.703-09	1.227+15	1.227+15	.996546	1.017655	2.7617	2.000+00
34	1.000+01	8.063+04	5.526+00	33971.0	1.444+04	3.379-09	1.534+15	1.544+15	.996620	1.081786	2.7982	2.239+00
35	1.468+01	8.581+04	7.456+00	37184.6	1.927+04	4.076-09	1.850+15	1.900+15	.996833	1.280082	2.8428	2.604+00
36	2.154+01	9.124+04	9.863+00	40613.6	2.509+04	4.785-09	2.173+15	2.300+15	.997093	1.597059	2.8902	3.080+00
37	3.162+01	9.722+04	1.295+01	44662.4	3.241+04	5.553-09	2.521+15	2.734+15	.997310	1.855630	2.9040	3.422+00
38	4.642+01	1.041+05	1.713+01	48882.0	4.233+04	6.598-09	2.995+15	3.276+15	.997414	1.949498	2.8925	3.632+00
39	6.813+01	1.122+05	2.297+01	53829.3	5.636+04	7.961-09	3.614+15	3.965+15	.997493	1.981606	2.8677	3.806+00
40	1.000+02	1.215+05	3.108+01	59374.3	7.621+04	9.791-09	4.445+15	4.883+15	.997555	1.998160	2.8342	4.060+00



TEFF = 20000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.813-05	12257.7	9.668-01	6.355-13	2.885+11	2.823+11	.999113	.787314	2.1433	3.244-01
2	4.642-05	5.961+02	1.422-04	12609.3	1.401+00	8.931-13	4.055+11	3.988+11	.999057	.839397	2.1175	3.307-01
3	6.813-05	1.186+03	2.065-04	12646.3	2.035+00	1.296-12	5.886+11	5.762+11	.998961	.796184	2.1368	3.392-01
4	1.000-04	1.782+03	2.989-04	12707.8	2.947+00	1.872-12	8.499+11	8.283+11	.998855	.752982	2.1589	3.506-01
5	1.468-04	2.364+03	4.295-04	12776.2	4.234+00	2.681-12	1.217+12	1.181+12	.998740	.708384	2.1838	3.656-01
6	2.154-04	2.935+03	6.125-04	12855.1	6.034+00	3.807-12	1.728+12	1.669+12	.998616	.665225	2.2117	3.848-01
7	3.162-04	3.495+03	8.663-04	12948.6	8.530+00	5.353-12	2.430+12	2.338+12	.998484	.626915	2.2415	4.090-01
8	4.642-04	4.046+03	1.215-03	13061.6	1.195+01	7.449-12	3.382+12	3.242+12	.998345	.597033	2.2739	4.390-01
9	6.813-04	4.587+03	1.689-03	13196.0	1.660+01	1.026-11	4.656+12	4.454+12	.998203	.577212	2.3053	4.753-01
10	1.000-03	5.120+03	2.330-03	13347.5	2.288+01	1.398-11	6.348+12	6.063+12	.998057	.565392	2.3333	5.183-01
11	1.468-03	5.647+03	3.190-03	13508.7	3.129+01	1.890-11	8.580+12	8.187+12	.997906	.558305	2.3580	5.689-01
12	2.154-03	6.169+03	4.335-03	13670.3	4.247+01	2.536-11	1.151+13	1.098+13	.997746	.551265	2.3814	6.289-01
13	3.162-03	6.684+03	5.849-03	13820.8	5.723+01	3.383-11	1.536+13	1.463+13	.997571	.540308	2.4076	7.010-01
14	4.642-03	7.192+03	7.832-03	13951.8	7.654+01	4.487-11	2.037+13	1.935+13	.997377	.522607	2.4424	7.886-01
15	6.813-03	7.690+03	1.041-02	14068.0	1.015+02	5.912-11	2.684+13	2.543+13	.997162	.498739	2.4890	8.952-01
16	1.000-02	8.180+03	1.373-02	14185.1	1.336+02	7.725-11	3.507+13	3.315+13	.996934	.476931	2.5473	1.022+00
17	1.468-02	8.664+03	1.799-02	14319.3	1.746+02	1.001-10	4.544+13	4.288+13	.996703	.463099	2.6084	1.169+00
18	2.154-02	9.146+03	2.346-02	14483.0	2.270+02	1.287-10	5.842+13	5.511+13	.996482	.460954	2.6686	1.332+00
19	3.162-02	9.632+03	3.054-02	14686.5	2.942+02	1.644-10	7.463+13	7.047+13	.996280	.472913	2.7261	1.510+00
20	4.642-02	1.013+04	3.974-02	14943.7	3.810+02	2.089-10	9.485+13	8.984+13	.996111	.502328	2.7796	1.695+00
21	6.813-02	1.064+04	5.185-02	15273.3	4.944+02	2.646-10	1.201+14	1.143+14	.995985	.552690	2.8273	1.879+00
22	1.000-01	1.118+04	6.802-02	15696.3	6.447+02	3.344-10	1.518+14	1.456+14	.995908	.625707	2.8679	2.049+00
23	1.468-01	1.177+04	9.001-02	16244.0	8.475+02	4.229-10	1.920+14	1.860+14	.995882	.717758	2.9004	2.192+00
24	2.154-01	1.240+04	1.205-01	16943.1	1.127+03	5.367-10	2.436+14	2.383+14	.995890	.813093	2.9245	2.299+00
25	3.162-01	1.311+04	1.636-01	17819.9	1.522+03	6.858-10	3.113+14	3.070+14	.995917	.892686	2.9375	2.368+00
26	4.642-01	1.390+04	2.253-01	18853.9	2.085+03	8.859-10	4.022+14	3.987+14	.995928	.943643	2.9417	2.423+00
27	6.813-01	1.477+04	3.139-01	20047.1	2.894+03	1.155-09	5.243+14	5.213+14	.995921	.971771	2.9419	2.477+00
28	1.000+00	1.573+04	4.409-01	21418.2	4.052+03	1.513-09	6.868+14	6.839+14	.995904	.986278	2.9416	2.542+00
29	1.468+00	1.677+04	6.217-01	22975.8	5.702+03	1.984-09	9.006+14	8.974+14	.995884	.993380	2.9417	2.631+00
30	2.154+00	1.789+04	8.764-01	24704.4	8.026+03	2.596-09	1.178+15	1.175+15	.995860	.996757	2.9462	2.762+00
31	3.162+00	1.908+04	1.230+00	26637.4	1.124+04	3.373-09	1.531+15	1.527+15	.995843	.998616	2.9578	2.939+00
32	4.642+00	2.034+04	1.714+00	28808.6	1.564+04	4.335-09	1.968+15	1.963+15	.995841	1.000909	2.9779	3.174+00
33	6.813+00	2.168+04	2.369+00	31281.5	2.154+04	5.500-09	2.497+15	2.493+15	.995860	1.008615	2.9994	3.454+00
34	1.000+01	2.309+04	3.244+00	34028.9	2.939+04	6.886-09	3.126+15	3.131+15	.995913	1.040594	3.0304	3.827+00
35	1.468+01	2.459+04	4.384+00	37203.7	3.951+04	8.416-09	3.821+15	3.872+15	.996091	1.160720	3.0711	4.398+00
36	2.154+01	2.613+04	5.803+00	40659.2	5.191+04	9.982-09	4.532+15	4.717+15	.996392	1.431522	3.1246	5.279+00
37	3.162+01	2.776+04	7.563+00	44635.9	6.707+04	1.157-08	5.252+15	5.632+15	.996696	1.737741	3.1552	6.102+00
38	4.642+01	2.961+04	9.886+00	48940.6	8.699+04	1.358-08	6.165+15	6.710+15	.996873	1.899757	3.1496	6.582+00
39	6.813+01	3.177+04	1.310+01	53790.9	1.147+05	1.623-08	7.366+15	8.065+15	.996986	1.962292	3.1286	6.937+00
40	1.000+02	3.429+04	1.755+01	59299.7	1.534+05	1.973-08	8.958+15	9.829+15	.997073	1.991760	3.0967	7.378+00

TEFF = 20000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.010-05	12222.8	2.832+00	1.893-12	8.592+11	8.191+11	.998782	.538265	2.2455	3.516-01
2	4.642-05	1.813+02	1.298-04	12574.3	4.083+00	2.641-12	1.199+12	1.153+12	.998713	.623584	2.2094	3.655-01
3	6.813-05	3.596+02	1.870-04	12603.4	5.881+00	3.810-12	1.730+12	1.650+12	.998568	.551072	2.2485	3.869-01
4	1.000-04	5.352+02	2.666-04	12667.7	8.384+00	5.419-12	2.460+12	2.333+12	.998414	.494952	2.2898	4.140-01
5	1.468-04	7.037+02	3.751-04	12744.9	1.179+01	7.595-12	3.448+12	3.253+12	.998250	.448339	2.3348	4.481-01
6	2.154-04	8.672+02	5.215-04	12845.9	1.639+01	1.049-11	4.762+12	4.478+12	.998081	.416151	2.3787	4.894-01
7	3.162-04	1.027+03	7.174-04	12967.6	2.254+01	1.431-11	6.495+12	6.092+12	.997908	.395553	2.4172	5.383-01
8	4.642-04	1.183+03	9.780-04	13103.6	3.070+01	1.930-11	8.764+12	8.209+12	.997731	.382701	2.4519	5.960-01
9	6.813-04	1.337+03	1.322-03	13251.0	4.150+01	2.581-11	1.172+13	1.096+13	.997549	.375551	2.4830	6.634-01
10	1.000-03	1.489+03	1.775-03	13405.3	5.568+01	3.424-11	1.555+13	1.454+13	.997361	.371601	2.5107	7.423-01
11	1.468-03	1.639+03	2.368-03	13558.4	7.422+01	4.514-11	2.050+13	1.915+13	.997161	.367352	2.5377	8.354-01
12	2.154-03	1.788+03	3.138-03	13701.7	9.829+01	5.919-11	2.687+13	2.509+13	.996942	.359532	2.5684	9.467-01
13	3.162-03	1.934+03	4.130-03	13831.8	1.292+02	7.719-11	3.504+13	3.267+13	.996697	.347249	2.6105	1.083+00
14	4.642-03	2.078+03	5.399-03	13948.0	1.688+02	1.001-10	4.543+13	4.226+13	.996424	.330867	2.6624	1.248+00
15	6.813-03	2.220+03	7.010-03	14058.4	2.190+02	1.289-10	5.852+13	5.432+13	.996126	.313794	2.7219	1.445+00
16	1.000-02	2.359+03	9.051-03	14175.8	2.824+02	1.650-10	7.489+13	6.939+13	.995813	.300097	2.7851	1.674+00
17	1.468-02	2.498+03	1.164-02	14312.2	3.625+02	2.099-10	9.527+13	8.819+13	.995503	.293162	2.8487	1.936+00
18	2.154-02	2.638+03	1.493-02	14479.3	4.642+02	2.656-10	1.206+14	1.116+14	.995215	.295637	2.9100	2.224+00
19	3.162-02	2.779+03	1.916-02	14687.8	5.941+02	3.350-10	1.521+14	1.409+14	.994967	.309991	2.9678	2.535+00
20	4.642-02	2.924+03	2.464-02	14952.8	7.619+02	4.213-10	1.913+14	1.778+14	.994782	.340462	3.0206	2.855+00
21	6.813-02	3.076+03	3.183-02	15290.8	9.813+02	5.292-10	2.403+14	2.246+14	.994674	.391875	3.0676	3.168+00
22	1.000-01	3.238+03	4.142-02	15737.8	1.272+03	6.641-10	3.015+14	2.843+14	.994668	.474481	3.1088	3.460+00
23	1.468-01	3.412+03	5.442-02	16312.0	1.667+03	8.340-10	3.787+14	3.614+14	.994737	.586400	3.1428	3.718+00
24	2.154-01	3.603+03	7.234-02	17025.5	2.207+03	1.052-09	4.775+14	4.618+14	.994839	.711171	3.1671	3.923+00
25	3.162-01	3.815+03	9.754-02	17897.1	2.966+03	1.337-09	6.070+14	5.937+14	.994946	.823596	3.1803	4.062+00
26	4.642-01	4.051+03	1.335-01	18934.2	4.049+03	1.718-09	7.799+14	7.694+14	.995026	.903681	3.1838	4.153+00
27	6.813-01	4.315+03	1.853-01	20135.8	5.607+03	2.231-09	1.013+15	1.004+15	.995072	.950880	3.1816	4.235+00
28	1.000+00	4.605+03	2.595-01	21507.0	7.841+03	2.918-09	1.325+15	1.317+15	.995089	.975606	3.1794	4.354+00
29	1.468+00	4.919+03	3.647-01	23053.3	1.101+04	3.820-09	1.734+15	1.726+15	.995088	.987935	3.1801	4.539+00
30	2.154+00	5.254+03	5.115-01	24767.5	1.543+04	4.980-09	2.261+15	2.251+15	.995079	.993912	3.1888	4.816+00
31	3.162+00	5.610+03	7.134-01	26697.3	2.149+04	6.437-09	2.922+15	2.910+15	.995078	.996967	3.2021	5.158+00
32	4.642+00	5.987+03	9.889-01	28852.4	2.976+04	8.244-09	3.743+15	3.728+15	.995087	.999279	3.2218	5.572+00
33	6.813+00	6.388+03	1.362+00	31316.8	4.093+04	1.044-08	4.741+15	4.725+15	.995119	1.004091	3.2436	6.054+00
34	1.000+01	6.814+03	1.863+00	34065.3	5.585+04	1.309-08	5.942+15	5.934+15	.995167	1.022033	3.2718	6.678+00
35	1.468+01	7.265+03	2.520+00	37217.7	7.536+04	1.611-08	7.312+15	7.356+15	.995305	1.093178	3.3065	7.571+00
36	2.154+01	7.734+03	3.350+00	40672.8	9.981+04	1.932-08	8.773+15	9.002+15	.995602	1.292153	3.3550	8.961+00
37	3.162+01	8.223+03	4.374+00	44657.5	1.298+05	2.251-08	1.022+16	1.081+16	.995983	1.586704	3.3939	1.060+01
38	4.642+01	8.761+03	5.685+00	48933.5	1.679+05	2.632-08	1.195+16	1.291+16	.996253	1.824203	3.4033	1.179+01
39	6.813+01	9.381+03	7.467+00	53791.0	2.198+05	3.115-08	1.414+16	1.543+16	.996425	1.930794	3.3856	1.253+01
40	1.000+02	1.011+04	9.934+00	59372.5	2.921+05	3.750-08	1.703+16	1.866+16	.996553	1.980355	3.3492	1.330+01

TEFF = 25000

LOG G = 3.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.957-05	14594.1	2.810-01	1.534-13	6.965+10	6.967+10	.999471	.998774	2.5068	3.156-01
2	4.642-05	2.597+03	1.465-04	15096.0	4.148-01	2.189-13	9.938+10	9.939+10	.999438	.999132	2.4834	3.179-01
3	6.813-05	5.169+03	2.146-04	15179.1	6.091-01	3.197-13	1.451+11	1.451+11	.999384	.998868	2.4930	3.200-01
4	1.000-04	7.735+03	3.138-04	15293.6	8.915-01	4.644-13	2.108+11	2.108+11	.999327	.998587	2.5033	3.225-01
5	1.468-04	1.031+04	4.581-04	15429.2	1.301+00	6.721-13	3.051+11	3.051+11	.999266	.998286	2.5098	3.256-01
6	2.154-04	1.290+04	6.677-04	15582.1	1.896+00	9.696-13	4.402+11	4.400+11	.999201	.997965	2.5138	3.296-01
7	3.162-04	1.550+04	9.713-04	15747.7	2.756+00	1.395-12	6.333+11	6.331+11	.999132	.997619	2.5169	3.344-01
8	4.642-04	1.812+04	1.410-03	15919.5	3.999+00	2.003-12	9.092+11	9.087+11	.999057	.997228	2.5161	3.403-01
9	6.813-04	2.074+04	2.041-03	16081.2	5.789+00	2.870-12	1.303+12	1.303+12	.998975	.996720	2.5149	3.476-01
10	1.000-03	2.337+04	2.945-03	16220.1	8.352+00	4.106-12	1.864+12	1.863+12	.998885	.996012	2.5200	3.573-01
11	1.468-03	2.599+04	4.231-03	16336.6	1.199+01	5.853-12	2.657+12	2.655+12	.998787	.995030	2.5337	3.699-01
12	2.154-03	2.858+04	6.047-03	16448.5	1.710+01	8.293-12	3.765+12	3.760+12	.998681	.993804	2.5549	3.860-01
13	3.162-03	3.116+04	8.591-03	16579.0	2.420+01	1.165-11	5.288+12	5.280+12	.998570	.992491	2.5811	4.061-01
14	4.642-03	3.373+04	1.213-02	16745.8	3.399+01	1.620-11	7.355+12	7.343+12	.998457	.991330	2.6088	4.300-01
15	6.813-03	3.629+04	1.702-02	16961.1	4.740+01	2.231-11	1.013+13	1.011+13	.998342	.990564	2.6343	4.576-01
16	1.000-02	3.887+04	2.374-02	17223.3	6.569+01	3.045-11	1.383+13	1.380+13	.998226	.990251	2.6567	4.890-01
17	1.468-02	4.146+04	3.296-02	17524.8	9.056+01	4.127-11	1.873+13	1.870+13	.998109	.990312	2.6773	5.247-01
18	2.154-02	4.408+04	4.554-02	17858.7	1.242+02	5.554-11	2.521+13	2.516+13	.997991	.990646	2.7002	5.657-01
19	3.162-02	4.673+04	6.264-02	18221.2	1.695+02	7.425-11	3.371+13	3.364+13	.997871	.991155	2.7270	6.122-01
20	4.642-02	4.943+04	8.580-02	18620.7	2.298+02	9.858-11	4.475+13	4.465+13	.997751	.991867	2.7589	6.635-01
21	6.813-02	5.219+04	1.172-01	19084.5	3.103+02	1.298-10	5.895+13	5.882+13	.997635	.992876	2.7943	7.179-01
22	1.000-01	5.506+04	1.599-01	19652.2	4.174+02	1.697-10	7.703+13	7.686+13	.997528	.994209	2.8301	7.723-01
23	1.468-01	5.808+04	2.184-01	20356.4	5.614+02	2.202-10	9.999+13	9.978+13	.997434	.995675	2.8613	8.231-01
24	2.154-01	6.130+04	2.994-01	21234.9	7.566+02	2.846-10	1.292+14	1.289+14	.997355	.997050	2.8878	8.691-01
25	3.162-01	6.479+04	4.124-01	22322.6	1.024+03	3.664-10	1.664+14	1.661+14	.997291	.998176	2.9091	9.124-01
26	4.642-01	6.857+04	5.703-01	23625.0	1.392+03	4.706-10	2.137+14	2.133+14	.997241	.999014	2.9280	9.599-01
27	6.813-01	7.269+04	7.903-01	25150.3	1.899+03	6.027-10	2.736+14	2.732+14	.997204	.999826	2.9424	1.012+00
28	1.000+00	7.716+04	1.096+00	26871.5	2.593+03	7.703-10	3.497+14	3.492+14	.997175	1.001543	2.9559	1.072+00
29	1.468+00	8.200+04	1.518+00	28819.7	3.538+03	9.797-10	4.448+14	4.445+14	.997156	1.007880	2.9718	1.147+00
30	2.154+00	8.720+04	2.092+00	30987.9	4.802+03	1.235-09	5.608+14	5.617+14	.997160	1.032267	2.9941	1.244+00
31	3.162+00	9.277+04	2.861+00	33431.7	6.446+03	1.530-09	6.947+14	7.019+14	.997220	1.118300	3.0263	1.378+00
32	4.642+00	9.872+04	3.864+00	36165.4	8.494+03	1.844-09	8.370+14	8.641+14	.997383	1.334407	3.0714	1.567+00
33	6.813+00	1.053+05	5.175+00	39298.1	1.103+04	2.170-09	9.852+14	1.049+15	.997585	1.653795	3.1006	1.727+00
34	1.000+01	1.130+05	7.019+00	42746.3	1.453+04	2.602-09	1.181+15	1.282+15	.997707	1.864399	3.0979	1.714+00
35	1.468+01	1.227+05	9.849+00	46691.1	2.006+04	3.274-09	1.486+15	1.626+15	.997757	1.951967	3.0659	1.593+00
36	2.154+01	1.345+05	1.430+01	50940.4	2.912+04	4.348-09	1.974+15	2.165+15	.997754	1.980923	3.0427	1.503+00
37	3.162+01	1.479+05	2.112+01	55941.5	4.334+04	5.891-09	2.674+15	2.937+15	.997746	1.992183	3.0294	1.472+00
38	4.642+01	1.620+05	3.080+01	61212.1	6.340+04	7.873-09	3.574+15	3.926+15	.997736	1.996137	3.0560	1.599+00
39	6.813+01	1.763+05	4.350+01	67596.5	8.833+04	9.941-09	4.513+15	4.958+15	.997773	1.998115	3.1092	1.830+00
40	1.000+02	1.913+05	5.974+01	74211.1	1.167+05	1.198-08	5.441+15	5.979+15	.997825	1.998892	3.2287	2.156+00

TEFF = 25000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.750-05	14470.2	9.365-01	5.156-13	2.341+11	2.340+11	.999278	.995108	2.5618	3.223-01
2	4.642-05	7.551+02	1.432-04	15019.2	1.377+00	7.306-13	3.317+11	3.316+11	.999235	.996817	2.5281	3.259-01
3	6.813-05	1.505+03	2.094-04	15115.1	2.017+00	1.063-12	4.825+11	4.822+11	.999163	.995944	2.5375	3.303-01
4	1.000-04	2.251+03	3.050-04	15232.2	2.940+00	1.538-12	6.980+11	6.975+11	.999087	.994980	2.5479	3.360-01
5	1.468-04	2.995+03	4.427-04	15359.8	4.267+00	2.214-12	1.005+12	1.004+12	.999005	.993886	2.5588	3.433-01
6	2.154-04	3.738+03	6.400-04	15498.7	6.168+00	3.172-12	1.440+12	1.439+12	.998917	.992677	2.5696	3.526-01
7	3.162-04	4.478+03	9.211-04	15642.0	8.873+00	4.522-12	2.053+12	2.050+12	.998823	.991296	2.5807	3.644-01
8	4.642-04	5.214+03	1.319-03	15772.0	1.269+01	6.417-12	2.913+12	2.909+12	.998721	.989496	2.5954	3.796-01
9	6.813-04	5.943+03	1.876-03	15889.6	1.804+01	9.059-12	4.113+12	4.104+12	.998611	.987157	2.6144	3.989-01
10	1.000-03	6.663+03	2.651-03	16003.7	2.546+01	1.270-11	5.765+12	5.752+12	.998493	.984318	2.6393	4.232-01
11	1.468-03	7.374+03	3.718-03	16124.7	3.565+01	1.765-11	8.014+12	7.993+12	.998369	.981154	2.6713	4.530-01
12	2.154-03	8.076+03	5.176-03	16271.6	4.952+01	2.430-11	1.103+13	1.100+13	.998240	.978192	2.7064	4.884-01
13	3.162-03	8.771+03	7.155-03	16457.2	6.826+01	3.313-11	1.504+13	1.499+13	.998110	.976026	2.7397	5.292-01
14	4.642-03	9.464+03	9.830-03	16683.7	9.350+01	4.478-11	2.033+13	2.025+13	.997978	.974905	2.7689	5.753-01
15	6.813-03	1.016+04	1.343-02	16947.3	1.274+02	6.004-11	2.726+13	2.716+13	.997846	.974782	2.7969	6.285-01
16	1.000-02	1.085+04	1.826-02	17233.8	1.725+02	8.001-11	3.632+13	3.618+13	.997712	.975181	2.8240	6.895-01
17	1.468-02	1.155+04	2.472-02	17533.8	2.325+02	1.060-10	4.813+13	4.794+13	.997573	.975795	2.8531	7.594-01
18	2.154-02	1.225+04	3.329-02	17847.3	3.120+02	1.397-10	6.344+13	6.319+13	.997431	.976606	2.8875	8.394-01
19	3.162-02	1.296+04	4.468-02	18187.7	4.166+02	1.831-10	8.314+13	8.280+13	.997288	.977847	2.9284	9.290-01
20	4.642-02	1.368+04	5.979-02	18581.7	5.542+02	2.384-10	1.083+14	1.078+14	.997148	.979912	2.9730	1.025+00
21	6.813-02	1.443+04	7.997-02	19066.7	7.359+02	3.086-10	1.401+14	1.396+14	.997020	.983005	3.0173	1.122+00
22	1.000-01	1.520+04	1.072-01	19679.5	9.784+02	3.974-10	1.804+14	1.798+14	.996907	.986854	3.0573	1.214+00
23	1.468-01	1.602+04	1.443-01	20453.7	1.305+03	5.100-10	2.316+14	2.309+14	.996812	.990753	3.0910	1.300+00
24	2.154-01	1.690+04	1.954-01	21399.4	1.752+03	6.540-10	2.969+14	2.961+14	.996733	.993969	3.1167	1.381+00
25	3.162-01	1.786+04	2.663-01	22535.5	2.366+03	8.383-10	3.806+14	3.797+14	.996669	.996327	3.1362	1.460+00
26	4.642-01	1.889+04	3.647-01	23858.9	3.212+03	1.075-09	4.881+14	4.869+14	.996614	.997886	3.1509	1.544+00
27	6.813-01	2.000+04	5.008-01	25370.9	4.377+03	1.378-09	6.256+14	6.241+14	.996569	.998980	3.1631	1.642+00
28	1.000+00	2.120+04	6.883-01	27070.9	5.975+03	1.763-09	8.002+14	7.984+14	.996531	1.000252	3.1772	1.756+00
29	1.468+00	2.249+04	9.444-01	28992.1	8.144+03	2.243-09	1.018+15	1.017+15	.996506	1.003639	3.1940	1.894+00
30	2.154+00	2.386+04	1.290+00	31126.2	1.105+04	2.832-09	1.286+15	1.285+15	.996492	1.015569	3.2178	2.072+00
31	3.162+00	2.531+04	1.751+00	33533.8	1.486+04	3.529-09	1.602+15	1.608+15	.996530	1.058284	3.2512	2.303+00
32	4.642+00	2.684+04	2.350+00	36246.0	1.972+04	4.305-09	1.954+15	1.987+15	.996659	1.187327	3.2989	2.632+00
33	6.813+00	2.846+04	3.115+00	39345.2	2.575+04	5.109-09	2.319+15	2.421+15	.996895	1.455576	3.3489	3.041+00
34	1.000+01	3.028+04	4.126+00	42831.8	3.353+04	6.027-09	2.736+15	2.935+15	.997114	1.742525	3.3682	3.213+00
35	1.468+01	3.254+04	5.635+00	46793.9	4.522+04	7.382-09	3.351+15	3.648+15	.997229	1.901429	3.3393	2.987+00
36	2.154+01	3.539+04	8.037+00	51075.0	6.421+04	9.572-09	4.346+15	4.757+15	.997256	1.960534	3.3072	2.761+00
37	3.162+01	3.872+04	1.173+01	55977.3	9.375+04	1.274-08	5.785+15	6.345+15	.997259	1.983399	3.3003	2.749+00
38	4.642+01	4.221+04	1.684+01	61351.4	1.344+05	1.666-08	7.561+15	8.300+15	.997267	1.992085	3.3360	3.056+00
39	6.813+01	4.574+04	2.341+01	67617.4	1.848+05	2.079-08	9.438+15	1.037+16	.997317	1.996051	3.4014	3.582+00
40	1.000+02	4.934+04	3.162+01	74271.6	2.435+05	2.497-08	1.134+16	1.246+16	.997384	1.997689	3.5403	4.285+00

TEFF = 25000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.392-05	14438.9	2.925+00	1.615-12	7.331+11	7.319+11	.999033	.984173	2.6373	3.388-01
2	4.642-05	2.255+02	1.362-04	15015.2	4.242+00	2.252-12	1.022+12	1.021+12	.998981	.990198	2.5883	3.448-01
3	6.813-05	4.509+02	1.978-04	15104.8	6.166+00	3.253-12	1.477+12	1.474+12	.998887	.987564	2.6066	3.555-01
4	1.000-04	6.771+02	2.857-04	15214.8	8.912+00	4.669-12	2.120+12	2.115+12	.998785	.984614	2.6271	3.692-01
5	1.468-04	8.985+02	4.094-04	15323.0	1.277+01	6.645-12	3.017+12	3.009+12	.998677	.981064	2.6504	3.868-01
6	2.154-04	1.116+03	5.819-04	15430.7	1.814+01	9.380-12	4.258+12	4.245+12	.998562	.976839	2.6771	4.090-01
7	3.162-04	1.330+03	8.202-04	15542.8	2.556+01	1.312-11	5.958+12	5.937+12	.998439	.972029	2.7065	4.365-01
8	4.642-04	1.541+03	1.146-03	15659.2	3.570+01	1.820-11	8.264+12	8.228+12	.998310	.966644	2.7389	4.703-01
9	6.813-04	1.747+03	1.588-03	15780.2	4.943+01	2.502-11	1.136+13	1.130+13	.998173	.960722	2.7759	5.113-01
10	1.000-03	1.950+03	2.183-03	15911.6	6.786+01	3.408-11	1.547+13	1.539+13	.998030	.954636	2.8168	5.601-01
11	1.468-03	2.150+03	2.977-03	16069.4	9.242+01	4.599-11	2.088+13	2.075+13	.997883	.949559	2.8576	6.167-01
12	2.154-03	2.348+03	4.033-03	16264.7	1.250+02	6.149-11	2.791+13	2.772+13	.997737	.946565	2.8968	6.821-01
13	3.162-03	2.545+03	5.432-03	16491.4	1.681+02	8.157-11	3.703+13	3.677+13	.997589	.945403	2.9316	7.564-01
14	4.642-03	2.742+03	7.282-03	16740.8	2.250+02	1.075-10	4.883+13	4.848+13	.997439	.945504	2.9627	8.410-01
15	6.813-03	2.940+03	9.720-03	17004.4	2.997+02	1.411-10	6.405+13	6.358+13	.997285	.946210	2.9929	9.382-01
16	1.000-02	3.138+03	1.292-02	17275.7	3.977+02	1.843-10	8.366+13	8.305+13	.997125	.947140	3.0258	1.051+00
17	1.468-02	3.337+03	1.711-02	17554.8	5.255+02	2.396-10	1.088+14	1.080+14	.996960	.948233	3.0642	1.181+00
18	2.154-02	3.536+03	2.257-02	17852.0	6.915+02	3.101-10	1.408+14	1.398+14	.996792	.949963	3.1096	1.329+00
19	3.162-02	3.739+03	2.970-02	18190.6	9.074+02	3.994-10	1.813+14	1.800+14	.996627	.953232	3.1599	1.492+00
20	4.642-02	3.945+03	3.906-02	18609.2	1.189+03	5.114-10	2.322+14	2.306+14	.996476	.959014	3.2120	1.663+00
21	6.813-02	4.159+03	5.146-02	19135.4	1.560+03	6.522-10	2.961+14	2.943+14	.996345	.966825	3.2592	1.832+00
22	1.000-01	4.385+03	6.810-02	19792.6	2.054+03	8.300-10	3.768+14	3.749+14	.996233	.975319	3.2987	1.991+00
23	1.468-01	4.625+03	9.071-02	20593.0	2.722+03	1.057-09	4.799+14	4.776+14	.996139	.982909	3.3291	2.138+00
24	2.154-01	4.884+03	1.218-01	21564.3	3.635+03	1.348-09	6.118+14	6.094+14	.996061	.988970	3.3525	2.278+00
25	3.162-01	5.165+03	1.646-01	22708.5	4.892+03	1.722-09	7.816+14	7.789+14	.995995	.993238	3.3693	2.420+00
26	4.642-01	5.468+03	2.238-01	24028.6	6.622+03	2.202-09	9.997+14	9.965+14	.995938	.995999	3.3837	2.575+00
27	6.813-01	5.794+03	3.053-01	25544.1	9.000+03	2.815-09	1.278+15	1.273+15	.995892	.997750	3.3960	2.749+00
28	1.000+00	6.143+03	4.166-01	27236.2	1.224+04	3.589-09	1.629+15	1.625+15	.995853	.999165	3.4110	2.974+00
29	1.468+00	6.514+03	5.668-01	29128.2	1.659+04	4.550-09	2.066+15	2.060+15	.995826	1.001395	3.4301	3.248+00
30	2.154+00	6.906+03	7.679-01	31232.2	2.239+04	5.725-09	2.599+15	2.594+15	.995812	1.007955	3.4556	3.573+00
31	3.162+00	7.324+03	1.035+00	33623.7	3.006+04	7.129-09	3.237+15	3.238+15	.995829	1.031127	3.4873	3.963+00
32	4.642+00	7.765+03	1.385+00	36308.5	3.999+04	8.751-09	3.973+15	4.005+15	.995924	1.106364	3.5320	4.491+00
33	6.813+00	8.230+03	1.832+00	39389.1	5.251+04	1.049-08	4.762+15	4.893+15	.996156	1.297127	3.5857	5.209+00
34	1.000+01	8.734+03	2.408+00	42852.4	6.838+04	1.238-08	5.619+15	5.938+15	.996445	1.590437	3.6230	5.795+00
35	1.468+01	9.340+03	3.232+00	46858.9	9.103+04	1.490-08	6.764+15	7.307+15	.996652	1.823784	3.6065	5.549+00
36	2.154+01	1.011+04	4.524+00	51135.1	1.269+05	1.893-08	8.593+15	9.373+15	.996723	1.926488	3.5729	5.088+00
37	3.162+01	1.102+04	6.512+00	56015.4	1.823+05	2.479-08	1.126+16	1.233+16	.996748	1.968559	3.5717	5.146+00
38	4.642+01	1.198+04	9.223+00	61422.7	2.575+05	3.190-08	1.448+16	1.588+16	.996777	1.985174	3.6144	5.811+00
39	6.813+01	1.295+04	1.265+01	67646.2	3.508+05	3.946-08	1.792+16	1.966+16	.996843	1.992552	3.6860	6.890+00
40	1.000+02	1.393+04	1.689+01	74296.6	4.610+05	4.727-08	2.146+16	2.356+16	.996925	1.995629	3.8363	8.326+00

TEFF = 25000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.469-05	14430.0	8.415+00	4.664-12	2.117+12	2.107+12	.998723	.953843	2.7487	3.783-01
2	4.642-05	6.843+01	1.214-04	14999.2	1.206+01	6.430-12	2.919+12	2.909+12	.998660	.970968	2.6869	3.897-01
3	6.813-05	1.366+02	1.747-04	15058.0	1.736+01	9.221-12	4.186+12	4.167+12	.998533	.962054	2.7259	4.154-01
4	1.000-04	2.042+02	2.486-04	15145.6	2.471+01	1.306-11	5.927+12	5.894+12	.998398	.952778	2.7678	4.472-01
5	1.468-04	2.690+02	3.488-04	15242.1	3.467+01	1.821-11	8.268+12	8.212+12	.998259	.942710	2.8101	4.857-01
6	2.154-04	3.319+02	4.836-04	15350.5	4.807+01	2.508-11	1.139+13	1.130+13	.998114	.932474	2.8515	5.319-01
7	3.162-04	3.932+02	6.636-04	15466.5	6.593+01	3.417-11	1.551+13	1.537+13	.997962	.921880	2.8938	5.870-01
8	4.642-04	4.532+02	9.021-04	15588.9	8.959+01	4.609-11	2.092+13	2.071+13	.997803	.911093	2.9395	6.523-01
9	6.813-04	5.120+02	1.216-03	15729.8	1.207+02	6.157-11	2.795+13	2.763+13	.997640	.901671	2.9884	7.295-01
10	1.000-03	5.699+02	1.627-03	15894.9	1.614+02	8.151-11	3.701+13	3.655+13	.997474	.894743	3.0353	8.187-01
11	1.468-03	6.272+02	2.165-03	16086.3	2.145+02	1.071-10	4.861+13	4.798+13	.997307	.890825	3.0772	9.205-01
12	2.154-03	6.844+02	2.866-03	16301.9	2.838+02	1.398-10	6.346+13	6.263+13	.997138	.889673	3.1142	1.035+00
13	3.162-03	7.416+02	3.779-03	16536.9	3.738+02	1.816-10	8.243+13	8.135+13	.996967	.890510	3.1476	1.168+00
14	4.642-03	7.990+02	4.968-03	16784.4	4.910+02	2.349-10	1.067+14	1.053+14	.996791	.892342	3.1802	1.319+00
15	6.813-03	8.566+02	6.509-03	17039.3	6.426+02	3.029-10	1.375+14	1.358+14	.996608	.894504	3.2148	1.495+00
16	1.000-02	9.145+02	8.502-03	17300.8	8.386+02	3.893-10	1.767+14	1.744+14	.996418	.896826	3.2544	1.699+00
17	1.468-02	9.728+02	1.107-02	17576.8	1.091+03	4.983-10	2.262+14	2.233+14	.996225	.900118	3.3018	1.936+00
18	2.154-02	1.031+03	1.438-02	17885.1	1.415+03	6.350-10	2.883+14	2.847+14	.996035	.905684	3.3555	2.207+00
19	3.162-02	1.091+03	1.866-02	18243.4	1.832+03	8.058-10	3.658+14	3.615+14	.995856	.914308	3.4092	2.498+00
20	4.642-02	1.152+03	2.423-02	18680.1	2.374+03	1.019-09	4.628+14	4.579+14	.995695	.926366	3.4601	2.797+00
21	6.813-02	1.217+03	3.159-02	19219.5	3.087+03	1.288-09	5.846+14	5.791+14	.995558	.940956	3.5052	3.089+00
22	1.000-01	1.284+03	4.144-02	19885.9	4.040+03	1.627-09	7.387+14	7.329+14	.995446	.956132	3.5425	3.364+00
23	1.468-01	1.357+03	5.481-02	20700.2	5.328+03	2.060-09	9.354+14	9.292+14	.995356	.969700	3.5720	3.621+00
24	2.154-01	1.436+03	7.312-02	21683.8	7.089+03	2.616-09	1.187+15	1.181+15	.995286	.980489	3.5941	3.865+00
25	3.162-01	1.521+03	9.836-02	22839.0	9.511+03	3.330-09	1.512+15	1.505+15	.995226	.988022	3.6102	4.116+00
26	4.642-01	1.613+03	1.330-01	24165.5	1.283+04	4.245-09	1.927+15	1.919+15	.995176	.992877	3.6259	4.425+00
27	6.813-01	1.711+03	1.801-01	25673.8	1.734+04	5.400-09	2.452+15	2.441+15	.995135	.995810	3.6398	4.779+00
28	1.000+00	1.816+03	2.439-01	27346.3	2.344+04	6.852-09	3.111+15	3.098+15	.995100	.997727	3.6557	5.202+00
29	1.468+00	1.927+03	3.297-01	29217.9	3.161+04	8.651-09	3.927+15	3.912+15	.995077	.999690	3.6746	5.696+00
30	2.154+00	2.045+03	4.443-01	31301.9	4.252+04	1.086-08	4.929+15	4.912+15	.995066	1.003721	3.6999	6.275+00
31	3.162+00	2.170+03	5.967-01	33678.3	5.697+04	1.351-08	6.133+15	6.122+15	.995076	1.016715	3.7306	6.946+00
32	4.642+00	2.303+03	7.973-01	36349.7	7.589+04	1.664-08	7.554+15	7.573+15	.995145	1.059391	3.7713	7.805+00
33	6.813+00	2.445+03	1.056+00	39410.1	1.002+05	2.013-08	9.138+15	9.277+15	.995348	1.185307	3.8228	8.951+00
34	1.000+01	2.595+03	1.387+00	42887.4	1.310+05	2.388-08	1.084+16	1.129+16	.995661	1.431307	3.8638	1.015+01
35	1.468+01	2.770+03	1.845+00	46794.3	1.734+05	2.858-08	1.297+16	1.385+16	.995960	1.703085	3.8691	1.020+01
36	2.154+01	2.988+03	2.544+00	51223.2	2.382+05	3.560-08	1.616+16	1.752+16	.996121	1.871813	3.8415	9.515+00
37	3.162+01	3.249+03	3.599+00	55952.5	3.365+05	4.585-08	2.081+16	2.274+16	.996171	1.942191	3.8416	9.699+00
38	4.642+01	3.526+03	5.040+00	61499.0	4.701+05	5.824-08	2.644+16	2.895+16	.996237	1.973726	3.8916	1.098+01
39	6.813+01	3.805+03	6.848+00	67590.5	6.358+05	7.163-08	3.252+16	3.565+16	.996318	1.986077	3.9570	1.309+01
40	1.000+02	4.091+03	9.060+00	74413.5	8.344+05	8.567-08	3.889+16	4.266+16	.996420	1.992339	4.0932	1.599+01

TEFF = 30000

LOG G = 3.5

	TAG(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.967-05	18020.5	2.379-01	1.056-13	4.795+10	4.797+10	.999588	1.000051	2.8610	3.170-01
2	4.642-05	3.733+03	1.461-04	18658.9	3.521-01	1.510-13	6.856+10	6.859+10	.999562	1.000148	2.8317	3.187-01
3	6.813-05	7.435+03	2.139-04	18808.3	5.206-01	2.216-13	1.006+11	1.006+11	.999521	1.000129	2.8336	3.208-01
4	1.000-04	1.112+04	3.129-04	19004.3	7.663-01	3.227-13	1.465+11	1.465+11	.999477	1.000123	2.8325	3.232-01
5	1.468-04	1.482+04	4.570-04	19207.7	1.125+00	4.684-13	2.127+11	2.127+11	.999431	1.000118	2.8307	3.261-01
6	2.154-04	1.852+04	6.664-04	19409.5	1.645+00	6.782-13	3.079+11	3.079+11	.999381	1.000112	2.8310	3.293-01
7	3.162-04	2.225+04	9.706-04	19623.8	2.400+00	9.787-13	4.443+11	4.443+11	.999327	1.000107	2.8332	3.331-01
8	4.642-04	2.599+04	1.412-03	19863.1	3.493+00	1.407-12	6.389+11	6.389+11	.999269	1.000107	2.8351	3.376-01
9	6.813-04	2.977+04	2.050-03	20126.7	5.074+00	2.017-12	9.159+11	9.159+11	.999208	1.000113	2.8339	3.426-01
10	1.000-03	3.358+04	2.972-03	20393.7	7.360+00	2.887-12	1.311+12	1.310+12	.999142	1.000119	2.8319	3.483-01
11	1.468-03	3.742+04	4.302-03	20650.4	1.065+01	4.127-12	1.874+12	1.873+12	.999071	1.000119	2.8349	3.552-01
12	2.154-03	4.128+04	6.212-03	20895.8	1.537+01	5.883-12	2.671+12	2.670+12	.998994	1.000113	2.8436	3.634-01
13	3.162-03	4.517+04	8.948-03	21139.8	2.208+01	8.350-12	3.791+12	3.789+12	.998911	1.000102	2.8566	3.731-01
14	4.642-03	4.909+04	1.285-02	21385.5	3.156+01	1.179-11	5.353+12	5.351+12	.998824	1.000089	2.8735	3.847-01
15	6.813-03	5.305+04	1.839-02	21638.8	4.482+01	1.655-11	7.514+12	7.510+12	.998731	1.000076	2.8944	3.985-01
16	1.000-02	5.704+04	2.623-02	21908.2	6.325+01	2.306-11	1.047+13	1.047+13	.998634	1.000065	2.9191	4.148-01
17	1.468-02	6.109+04	3.724-02	22206.6	8.859+01	3.187-11	1.447+13	1.446+13	.998534	1.000066	2.9474	4.341-01
18	2.154-02	6.521+04	5.265-02	22555.4	1.231+02	4.359-11	1.979+13	1.977+13	.998433	1.000090	2.9777	4.565-01
19	3.162-02	6.942+04	7.410-02	22979.8	1.698+02	5.900-11	2.679+13	2.676+13	.998333	1.000161	3.0073	4.820-01
20	4.642-02	7.376+04	1.039-01	23500.8	2.326+02	7.904-11	3.588+13	3.585+13	.998236	1.000318	3.0340	5.105-01
21	6.813-02	7.827+04	1.451-01	24132.9	3.170+02	1.049-10	4.762+13	4.758+13	.998144	1.000635	3.0575	5.421-01
22	1.000-01	8.298+04	2.020-01	24885.5	4.303+02	1.380-10	6.266+13	6.261+13	.998058	1.001276	3.0785	5.768-01
23	1.468-01	8.794+04	2.804-01	25771.4	5.821+02	1.803-10	8.186+13	8.179+13	.997978	1.002636	3.0976	6.137-01
24	2.154-01	9.318+04	3.886-01	26816.7	7.855+02	2.338-10	1.061+14	1.060+14	.997905	1.005762	3.1174	6.540-01
25	3.162-01	9.878+04	5.374-01	28054.6	1.056+03	3.003-10	1.363+14	1.363+14	.997848	1.013656	3.1383	6.990-01
26	4.642-01	1.048+05	7.412-01	29515.5	1.412+03	3.811-10	1.730+14	1.735+14	.997812	1.035122	3.1608	7.515-01
27	6.813-01	1.113+05	1.018+00	31248.6	1.877+03	4.769-10	2.165+14	2.184+14	.997812	1.094733	3.1797	8.150-01
28	1.000+00	1.182+05	1.390+00	33177.2	2.477+03	5.890-10	2.674+14	2.732+14	.997860	1.227348	3.1986	8.973-01
29	1.468+00	1.258+05	1.883+00	35297.1	3.236+03	7.153-10	3.248+14	3.391+14	.997946	1.446757	3.2217	9.961-01
30	2.154+00	1.342+05	2.544+00	37717.9	4.205+03	8.600-10	3.904+14	4.172+14	.998041	1.694105	3.2331	1.073+00
31	3.162+00	1.439+05	3.471+00	40395.1	5.562+03	1.054-09	4.783+14	5.191+14	.998093	1.859580	3.2270	1.095+00
32	4.642+00	1.554+05	4.828+00	43405.5	7.596+03	1.334-09	6.056+14	6.621+14	.998106	1.940470	3.2157	1.081+00
33	6.813+00	1.687+05	6.870+00	46954.4	1.076+04	1.744-09	7.917+14	8.684+14	.998101	1.975870	3.1992	1.046+00
34	1.000+01	1.841+05	9.979+00	51020.7	1.576+04	2.350-09	1.067+15	1.171+15	.998082	1.989863	3.1846	1.008+00
35	1.468+01	2.011+05	1.467+01	55731.1	2.353+04	3.210-09	1.457+15	1.602+15	.998060	1.995537	3.1753	9.918-01
36	2.154+01	2.191+05	2.144+01	60951.1	3.465+04	4.321-09	1.962+15	2.156+15	.998047	1.997802	3.1915	1.047+00
37	3.162+01	2.377+05	3.053+01	66975.0	4.853+04	5.508-09	2.501+15	2.749+15	.998067	1.998837	3.2361	1.175+00
38	4.642+01	2.568+05	4.220+01	73451.2	6.412+04	6.638-09	3.014+15	3.313+15	.998110	1.999305	3.2883	1.361+00
39	6.813+01	2.775+05	5.688+01	80871.0	7.978+04	7.498-09	3.404+15	3.742+15	.998188	1.999510	3.3527	1.598+00
40	1.000+02	3.015+05	7.562+01	88735.2	9.328+04	7.993-09	3.629+15	3.989+15	.998284	1.999629	3.4213	1.787+00

TEFF = 30000

LOG G = 4.0

TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)	
1	0.000+00	0.000+00	9.736-05	17365.0	8.865-01	4.078-13	1.851+11	1.852+11	.999407	.999887	2.9013	3.241-01
2	4.642-05	9.472+02	1.426-04	18087.5	1.305+00	5.764-13	2.617+11	2.617+11	.999374	.999934	2.8477	3.271-01
3	6.813-05	1.893+03	2.086-04	18219.5	1.918+00	8.413-13	3.820+11	3.820+11	.999315	.999909	2.8512	3.304-01
4	1.000-04	2.836+03	3.045-04	18387.0	2.809+00	1.221-12	5.542+11	5.542+11	.999253	.999883	2.8545	3.343-01
5	1.468-04	3.780+03	4.434-04	18563.6	4.098+00	1.764-12	8.010+11	8.009+11	.999187	.999853	2.8592	3.389-01
6	2.154-04	4.726+03	6.444-04	18755.4	5.962+00	2.540-12	1.153+12	1.154+12	.999116	.999820	2.8650	3.443-01
7	3.162-04	5.676+03	9.342-04	18964.1	8.646+00	3.643-12	1.654+12	1.654+12	.999040	.999783	2.8710	3.509-01
8	4.642-04	6.629+03	1.351-03	19181.3	1.250+01	5.208-12	2.364+12	2.364+12	.998959	.999741	2.8781	3.591-01
9	6.813-04	7.586+03	1.947-03	19387.7	1.801+01	7.422-12	3.370+12	3.368+12	.998871	.999688	2.8906	3.690-01
10	1.000-03	8.543+03	2.796-03	19587.1	2.582+01	1.054-11	4.783+12	4.781+12	.998777	.999622	2.9089	3.812-01
11	1.468-03	9.500+03	3.999-03	19790.4	3.685+01	1.488-11	6.755+12	6.751+12	.998677	.999546	2.9316	3.964-01
12	2.154-03	1.046+04	5.691-03	20002.3	5.227+01	2.088-11	9.481+12	9.474+12	.998571	.999460	2.9576	4.148-01
13	3.162-03	1.141+04	8.056-03	20221.9	7.370+01	2.912-11	1.322+13	1.321+13	.998459	.999365	2.9853	4.369-01
14	4.642-03	1.237+04	1.134-02	20449.6	1.032+02	4.033-11	1.831+13	1.829+13	.998342	.999260	3.0191	4.635-01
15	6.813-03	1.332+04	1.586-02	20705.3	1.435+02	5.538-11	2.514+13	2.511+13	.998221	.999161	3.0572	4.952-01
16	1.000-02	1.428+04	2.206-02	21006.8	1.981+02	7.532-11	3.420+13	3.416+13	.998099	.999087	3.0966	5.318-01
17	1.468-02	1.524+04	3.052-02	21376.5	2.715+02	1.015-10	4.607+13	4.601+13	.997978	.999058	3.1332	5.730-01
18	2.154-02	1.622+04	4.203-02	21823.4	3.703+02	1.355-10	6.154+13	6.145+13	.997859	.999083	3.1655	6.188-01
19	3.162-02	1.722+04	5.765-02	22351.9	5.029+02	1.797-10	8.158+13	8.146+13	.997744	.999159	3.1943	6.693-01
20	4.642-02	1.824+04	7.885-02	22967.3	6.805+02	2.366-10	1.074+14	1.073+14	.997632	.999286	3.2215	7.247-01
21	6.813-02	1.930+04	1.076-01	23682.3	9.182+02	3.096-10	1.406+14	1.403+14	.997525	.999474	3.2489	7.852-01
22	1.000-01	2.040+04	1.464-01	24517.3	1.235+03	4.023-10	1.827+14	1.824+14	.997426	.999764	3.2775	8.524-01
23	1.468-01	2.154+04	1.989-01	25494.4	1.658+03	5.191-10	2.357+14	2.353+14	.997337	1.000282	3.3060	9.250-01
24	2.154-01	2.275+04	2.701-01	26640.8	2.220+03	6.654-10	3.021+14	3.015+14	.997260	1.001427	3.3330	1.002+00
25	3.162-01	2.403+04	3.665-01	27987.3	2.970+03	8.470-10	3.845+14	3.840+14	.997196	1.004432	3.3583	1.086+00
26	4.642-01	2.539+04	4.968-01	29550.6	3.967+03	1.071-09	4.861+14	4.860+14	.997148	1.013029	3.3805	1.182+00
27	6.813-01	2.685+04	6.719-01	31327.4	5.287+03	1.344-09	6.103+14	6.117+14	.997126	1.037543	3.4012	1.297+00
28	1.000+00	2.839+04	9.044-01	33301.7	7.008+03	1.671-09	7.586+14	7.653+14	.997143	1.102552	3.4267	1.445+00
29	1.468+00	3.003+04	1.207+00	35529.0	9.197+03	2.040-09	9.263+14	9.481+14	.997230	1.247828	3.4586	1.641+00
30	2.154+00	3.177+04	1.597+00	37995.1	1.193+04	2.448-09	1.111+15	1.163+15	.997368	1.483194	3.4885	1.872+00
31	3.162+00	3.368+04	2.111+00	40739.6	1.546+04	2.923-09	1.327+15	1.422+15	.997495	1.721234	3.5024	2.027+00
32	4.642+00	3.593+04	2.838+00	43812.8	2.045+04	3.569-09	1.620+15	1.760+15	.997566	1.873472	3.4904	2.029+00
33	6.813+00	3.864+04	3.930+00	47275.7	2.808+04	4.526-09	2.055+15	2.247+15	.997587	1.945302	3.4672	1.948+00
34	1.000+01	4.187+04	5.609+00	51265.4	4.006+04	5.948-09	2.700+15	2.960+15	.997580	1.976313	3.4495	1.857+00
35	1.468+01	4.555+04	8.148+00	55911.5	5.836+04	7.939-09	3.604+15	3.956+15	.997568	1.989491	3.4456	1.849+00
36	2.154+01	4.946+04	1.172+01	61152.7	8.387+04	1.043-08	4.734+15	5.199+15	.997567	1.994904	3.4741	2.011+00
37	3.162+01	5.342+04	1.638+01	67102.8	1.156+05	1.310-08	5.945+15	6.531+15	.997599	1.997291	3.5341	2.327+00
38	4.642+01	5.746+04	2.220+01	73647.1	1.525+05	1.573-08	7.143+15	7.847+15	.997657	1.998393	3.5960	2.755+00
39	6.813+01	6.168+04	2.936+01	80978.2	1.932+05	1.814-08	8.234+15	9.048+15	.997741	1.998829	3.6701	3.310+00
40	1.000+02	6.633+04	3.831+01	88856.2	2.361+05	2.018-08	9.164+15	1.007+16	.997837	1.999067	3.7638	3.772+00



TEFF = 30000

LOG G = 4.5

	TAU(RCSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(RCSS)
1	0.000+00	0.000+00	9.447-05	17152.0	2.887+00	1.343-12	6.099+11	6.100+11	.999194	.999526	2.9627	3.340-01
2	4.642-05	2.781+02	1.380-04	17910.9	4.228+00	1.884-12	8.555+11	8.554+11	.999151	.999695	2.8930	3.389-01
3	6.813-05	5.567+02	2.015-04	18046.7	6.184+00	2.736-12	1.242+12	1.242+12	.999073	.999610	2.9029	3.448-01
4	1.000-04	8.343+02	2.930-04	18210.5	9.003+00	3.947-12	1.792+12	1.792+12	.998990	.999518	2.9137	3.520-01
5	1.468-04	1.111+03	4.241-04	18386.4	1.304+01	5.663-12	2.571+12	2.570+12	.998903	.999413	2.9252	3.611-01
6	2.154-04	1.387+03	6.113-04	18560.0	1.880+01	8.087-12	3.671+12	3.670+12	.998808	.999285	2.9414	3.725-01
7	3.162-04	1.661+03	8.766-04	18729.2	2.696+01	1.149-11	5.216+12	5.213+12	.998707	.999127	2.9636	3.868-01
8	4.642-04	1.934+03	1.250-03	18901.7	3.842+01	1.623-11	7.367+12	7.362+12	.998600	.998943	2.9909	4.046-01
9	6.813-04	2.205+03	1.773-03	19084.0	5.440+01	2.276-11	1.033+13	1.033+13	.998486	.998735	3.0214	4.264-01
10	1.000-03	2.474+03	2.497-03	19279.2	7.651+01	3.169-11	1.439+13	1.437+13	.998367	.998510	3.0536	4.530-01
11	1.468-03	2.740+03	3.493-03	19483.5	1.068+02	4.379-11	1.988+13	1.986+13	.998242	.998266	3.0885	4.853-01
12	2.154-03	3.004+03	4.852-03	19692.7	1.480+02	6.005-11	2.726+13	2.722+13	.998111	.997999	3.1285	5.243-01
13	3.162-03	3.266+03	6.691-03	19909.8	2.036+02	8.167-11	3.708+13	3.703+13	.997975	.997717	3.1753	5.707-01
14	4.642-03	3.526+03	9.164-03	20159.7	2.778+02	1.101-10	4.998+13	4.990+13	.997837	.997475	3.2224	6.241-01
15	6.813-03	3.786+03	1.248-02	20460.9	3.768+02	1.471-10	6.678+13	6.666+13	.997698	.997321	3.2663	6.845-01
16	1.000-02	4.047+03	1.691-02	20823.6	5.084+02	1.950-10	8.852+13	8.836+13	.997561	.997287	3.3052	7.518-01
17	1.468-02	4.311+03	2.283-02	21251.0	6.831+02	2.567-10	1.165+14	1.163+14	.997426	.997369	3.3395	8.265-01
18	2.154-02	4.579+03	3.073-02	21744.0	9.150+02	3.361-10	1.526+14	1.523+14	.997293	.997546	3.3710	9.091-01
19	3.162-02	4.852+03	4.126-02	22309.4	1.223+03	4.375-10	1.986+14	1.982+14	.997163	.997801	3.4028	1.003+00
20	4.642-02	5.133+03	5.525-02	22953.8	1.628+03	5.664-10	2.572+14	2.566+14	.997038	.998109	3.4356	1.107+00
21	6.813-02	5.421+03	7.387-02	23693.2	2.164+03	7.294-10	3.311+14	3.304+14	.996921	.998460	3.4691	1.221+00
22	1.000-01	5.721+03	9.869-02	24554.1	2.872+03	9.342-10	4.241+14	4.231+14	.996812	.998858	3.5023	1.342+00
23	1.468-01	6.034+03	1.319-01	25564.6	3.811+03	1.191-09	5.406+14	5.393+14	.996716	.999351	3.5334	1.472+00
24	2.154-01	6.365+03	1.763-01	26750.7	5.062+03	1.511-09	6.859+14	6.843+14	.996634	1.000132	3.5609	1.609+00
25	3.162-01	6.715+03	2.361-01	28127.2	6.726+03	1.909-09	8.668+14	8.651+14	.996566	1.001824	3.5850	1.760+00
26	4.642-01	7.088+03	3.161-01	29699.2	8.939+03	2.402-09	1.091+15	1.089+15	.996510	1.006261	3.6082	1.934+00
27	6.813-01	7.483+03	4.226-01	31489.4	1.186+04	3.005-09	1.364+15	1.364+15	.996473	1.018923	3.6304	2.140+00
28	1.000+00	7.901+03	5.630-01	33480.7	1.568+04	3.730-09	1.693+15	1.699+15	.996473	1.053972	3.6561	2.398+00
29	1.468+00	8.340+03	7.450-01	35706.9	2.058+04	4.570-09	2.075+15	2.100+15	.996530	1.141885	3.6863	2.739+00
30	2.154+00	8.801+03	9.766-01	38132.3	2.672+04	5.510-09	2.501+15	2.575+15	.996664	1.310097	3.7292	3.184+00
31	3.162+00	9.292+03	1.272+00	40942.5	3.441+04	6.527-09	2.963+15	3.125+15	.996856	1.562313	3.7589	3.607+00
32	4.642+00	9.850+03	1.671+00	44015.3	4.475+04	7.814-09	3.547+15	3.816+15	.996996	1.774285	3.7583	3.750+00
33	6.813+00	1.053+04	2.263+00	47490.2	6.017+04	9.679-09	4.394+15	4.781+15	.997063	1.896649	3.7336	3.589+00
34	1.000+01	1.136+04	3.177+00	51430.2	8.427+04	1.249-08	5.668+15	6.199+15	.997077	1.953706	3.7113	3.401+00
35	1.468+01	1.232+04	4.552+00	56016.1	1.207+05	1.639-08	7.443+15	8.159+15	.997077	1.978966	3.7159	3.453+00
36	2.154+01	1.333+04	6.441+00	61267.6	1.702+05	2.112-08	9.590+15	1.052+16	.997093	1.989928	3.7563	3.846+00
37	3.162+01	1.435+04	8.854+00	67217.8	2.316+05	2.620-08	1.189+16	1.306+16	.997142	1.994675	3.8223	4.519+00
38	4.642+01	1.538+04	1.183+01	73701.4	3.044+05	3.140-08	1.426+16	1.565+16	.997211	1.996806	3.8886	5.419+00
39	6.813+01	1.645+04	1.546+01	81057.1	3.880+05	3.641-08	1.653+16	1.815+16	.997307	1.997661	3.9704	6.580+00
40	1.000+02	1.760+04	1.993+01	88884.2	4.826+05	4.130-08	1.875+16	2.059+16	.997408	1.998096	4.0701	7.583+00

TEFF = 30000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.964-05	17124.0	8.843+00	4.122-12	1.871+12	1.871+12	.998930	.998504	3.0548	3.541-01
2	4.642-05	8.438+01	1.299-04	17901.2	1.283+01	5.722-12	2.598+12	2.597+12	.998877	.999057	2.9689	3.620-01
3	6.813-05	1.690+02	1.885-04	18027.8	1.863+01	8.253-12	3.747+12	3.745+12	.998775	.998798	2.9899	3.747-01
4	1.000-04	2.534+02	2.718-04	18169.2	2.688+01	1.181-11	5.362+12	5.358+12	.998667	.998497	3.0168	3.908-01
5	1.468-04	3.360+02	3.884-04	18307.9	3.841+01	1.675-11	7.606+12	7.600+12	.998552	.998129	3.0508	4.110-01
6	2.154-04	4.173+02	5.504-04	18453.0	5.443+01	2.355-11	1.069+13	1.068+13	.998432	.997702	3.0900	4.360-01
7	3.162-04	4.974+02	7.737-04	18613.9	7.646+01	3.280-11	1.489+13	1.487+13	.998306	.997240	3.1309	4.664-01
8	4.642-04	5.763+02	1.079-03	18795.0	1.065+02	4.527-11	2.055+13	2.052+13	.998175	.996765	3.1708	5.029-01
9	6.813-04	6.541+02	1.492-03	18992.0	1.472+02	6.191-11	2.811+13	2.806+13	.998039	.996282	3.2095	5.469-01
10	1.000-03	7.309+02	2.047-03	19186.9	2.018+02	8.402-11	3.814+13	3.808+13	.997897	.995739	3.2515	5.997-01
11	1.468-03	8.066+02	2.788-03	19377.5	2.744+02	1.131-10	5.136+13	5.127+13	.997748	.995123	3.3019	6.630-01
12	2.154-03	8.813+02	3.767-03	19584.5	3.703+02	1.510-10	6.857+13	6.843+13	.997594	.994524	3.3563	7.372-01
13	3.162-03	9.554+02	5.058-03	19828.8	4.962+02	1.999-10	9.077+13	9.057+13	.997440	.994064	3.4088	8.223-01
14	4.642-03	1.029+03	6.756-03	20121.2	6.614+02	2.626-10	1.192+14	1.189+14	.997286	.993819	3.4555	9.176-01
15	6.813-03	1.104+03	8.990-03	20465.5	8.781+02	3.428-10	1.556+14	1.552+14	.997133	.993801	3.4963	1.024+00
16	1.000-02	1.179+03	1.193-02	20866.7	1.162+03	4.450-10	2.020+14	2.015+14	.996982	.994016	3.5331	1.144+00
17	1.468-02	1.255+03	1.578-02	21322.4	1.534+03	5.747-10	2.609+14	2.602+14	.996833	.994407	3.5677	1.280+00
18	2.154-02	1.332+03	2.083-02	21832.3	2.019+03	7.390-10	3.355+14	3.345+14	.996686	.994914	3.6012	1.434+00
19	3.162-02	1.411+03	2.745-02	22403.1	2.654+03	9.465-10	4.297+14	4.284+14	.996543	.995503	3.6356	1.604+00
20	4.642-02	1.492+03	3.615-02	23051.4	3.484+03	1.208-09	5.482+14	5.466+14	.996406	.996157	3.6712	1.791+00
21	6.813-02	1.576+03	4.759-02	23800.6	4.573+03	1.535-09	6.968+14	6.947+14	.996277	.996858	3.7072	1.994+00
22	1.000-01	1.663+03	6.272-02	24678.4	6.005+03	1.944-09	8.825+14	8.798+14	.996161	.997573	3.7415	2.209+00
23	1.468-01	1.755+03	8.282-02	25710.9	7.899+03	2.454-09	1.114+15	1.111+15	.996059	.998272	3.7725	2.435+00
24	2.154-01	1.852+03	1.096-01	26918.4	1.041+04	3.090-09	1.403+15	1.398+15	.995973	.999106	3.8000	2.683+00
25	3.162-01	1.954+03	1.452-01	28307.8	1.374+04	3.877-09	1.760+15	1.755+15	.995902	1.000360	3.8246	2.972+00
26	4.642-01	2.062+03	1.923-01	29875.2	1.812+04	4.845-09	2.200+15	2.194+15	.995844	1.003068	3.8477	3.299+00
27	6.813-01	2.177+03	2.545-01	31648.6	2.390+04	6.028-09	2.737+15	2.732+15	.995801	1.010263	3.8687	3.671+00
28	1.000+00	2.299+03	3.363-01	33609.6	3.145+04	7.463-09	3.388+15	3.388+15	.995776	1.029582	3.8923	4.119+00
29	1.468+00	2.427+03	4.425-01	35798.4	4.122+04	9.159-09	4.158+15	4.180+15	.995809	1.079827	3.9247	4.686+00
30	2.154+00	2.561+03	5.783-01	38253.7	5.359+04	1.108-08	5.030+15	5.115+15	.995925	1.195429	3.9660	5.422+00
31	3.162+00	2.703+03	7.500-01	41037.1	6.910+04	1.318-08	5.984+15	6.212+15	.996133	1.402849	4.0034	6.267+00
32	4.642+00	2.859+03	9.752-01	44129.1	8.930+04	1.565-08	7.107+15	7.549+15	.996343	1.644340	4.0166	6.788+00
33	6.813+00	3.047+03	1.299+00	47622.8	1.184+05	1.906-08	8.655+15	9.349+15	.996477	1.822453	3.9983	6.609+00
34	1.000+01	3.277+03	1.794+00	51547.9	1.631+05	2.416-08	1.097+16	1.195+16	.996529	1.916973	3.9745	6.265+00
35	1.468+01	3.545+03	2.533+00	56059.6	2.300+05	3.125-08	1.419+16	1.552+16	.996548	1.961112	3.9885	6.480+00
36	2.154+01	3.828+03	3.535+00	61398.5	3.199+05	3.965-08	1.800+16	1.973+16	.996591	1.981698	4.0333	7.285+00
37	3.162+01	4.114+03	4.799+00	67189.9	4.314+05	4.885-08	2.218+16	2.433+16	.996648	1.990105	4.1055	8.677+00
38	4.642+01	4.403+03	6.346+00	73822.1	5.647+05	5.818-08	2.641+16	2.898+16	.996741	1.994167	4.1760	1.044+01
39	6.813+01	4.701+03	8.219+00	81014.0	7.210+05	6.771-08	3.074+16	3.374+16	.996846	1.995654	4.2571	1.278+01
40	1.000+02	5.018+03	1.052+01	88955.4	9.038+05	7.731-08	3.510+16	3.853+16	.996963	1.996462	4.3683	1.481+01

TEFF = 35000

LOG G = 3.5

	TAL (ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K (ROSS)
1	0.000+00	0.000+00	9.931-05	22252.3	1.589-01	5.662-14	2.570+10	2.605+10	.999709	1.126213	3.1766	3.179-01
2	4.642-05	6.915+03	1.456-04	22889.8	2.371-01	8.186-14	3.716+10	3.789+10	.999691	1.186255	3.1605	3.201-01
3	6.813-05	1.369+04	2.133-04	23104.4	3.528-01	1.208-13	5.486+10	5.581+10	.999661	1.168763	3.1649	3.206-01
4	1.000-04	2.048+04	3.125-04	23383.2	5.212-01	1.764-13	8.009+10	8.146+10	.999630	1.164042	3.1680	3.218-01
5	1.468-04	2.729+04	4.575-04	23714.7	7.662-01	2.556-13	1.161+11	1.181+11	.999599	1.167853	3.1698	3.235-01
6	2.154-04	3.416+04	6.691-04	24104.1	1.123+00	3.686-13	1.674+11	1.705+11	.999567	1.180492	3.1673	3.258-01
7	3.162-04	4.109+04	9.771-04	24520.3	1.650+00	5.318-13	2.414+11	2.463+11	.999533	1.196087	3.1591	3.286-01
8	4.642-04	4.808+04	1.425-03	24937.9	2.425+00	7.681-13	3.487+11	3.563+11	.999495	1.210114	3.1538	3.319-01
9	6.813-04	5.511+04	2.076-03	25369.4	3.568+00	1.110-12	5.039+11	5.154+11	.999455	1.224687	3.1425	3.356-01
10	1.000-03	6.215+04	3.019-03	25799.4	5.262+00	1.608-12	7.301+11	7.478+11	.999412	1.237359	3.1289	3.398-01
11	1.468-03	6.919+04	4.386-03	26221.6	7.760+00	2.333-12	1.059+12	1.085+12	.999363	1.246289	3.1211	3.448-01
12	2.154-03	7.620+04	6.359-03	26658.7	1.141+01	3.372-12	1.531+12	1.571+12	.999312	1.256404	3.1154	3.509-01
13	3.162-03	8.320+04	9.200-03	27116.0	1.671+01	4.853-12	2.203+12	2.263+12	.999258	1.268450	3.1096	3.584-01
14	4.642-03	9.019+04	1.327-02	27559.3	2.437+01	6.959-12	3.159+12	3.247+12	.999199	1.276284	3.1080	3.674-01
15	6.813-03	9.717+04	1.910-02	27981.7	3.529+01	9.923-12	4.505+12	4.632+12	.999135	1.279233	3.1115	3.783-01
16	1.000-02	1.042+05	2.738-02	28372.4	5.067+01	1.405-11	6.379+12	6.556+12	.999065	1.276308	3.1208	3.911-01
17	1.468-02	1.112+05	3.911-02	28743.3	7.199+01	1.971-11	8.950+12	9.192+12	.998991	1.270246	3.1363	4.060-01
18	2.154-02	1.183+05	5.566-02	29111.5	1.011+02	2.735-11	1.242+13	1.274+13	.998914	1.264450	3.1569	4.231-01
19	3.162-02	1.255+05	7.892-02	29492.0	1.404+02	3.747-11	1.701+13	1.746+13	.998836	1.261646	3.1816	4.427-01
20	4.642-02	1.330+05	1.115-01	29918.7	1.923+02	5.060-11	2.297+13	2.358+13	.998759	1.266554	3.2089	4.650-01
21	6.813-02	1.407+05	1.569-01	30416.2	2.601+02	6.728-11	3.055+13	3.140+13	.998688	1.282975	3.2369	4.901-01
22	1.000-01	1.489+05	2.201-01	31013.4	3.476+02	8.802-11	3.996+13	4.121+13	.998625	1.315726	3.2639	5.184-01
23	1.468-01	1.576+05	3.075-01	31745.2	4.593+02	1.133-10	5.145+13	5.334+13	.998576	1.371352	3.2874	5.501-01
24	2.154-01	1.671+05	4.284-01	32616.5	6.020+02	1.441-10	6.540+13	6.831+13	.998542	1.448798	3.3057	5.850-01
25	3.162-01	1.773+05	5.950-01	33645.7	7.856+02	1.814-10	8.235+13	8.683+13	.998518	1.547956	3.3201	6.227-01
26	4.642-01	1.886+05	8.251-01	34883.8	1.026+03	2.271-10	1.031+14	1.099+14	.998505	1.664058	3.3289	6.607-01
27	6.813-01	2.012+05	1.145+00	36449.1	1.353+03	2.848-10	1.293+14	1.394+14	.998499	1.784905	3.3296	6.934-01
28	1.000+00	2.152+05	1.596+00	38348.2	1.820+03	3.625-10	1.646+14	1.790+14	.998488	1.878702	3.3257	7.170-01
29	1.468+00	2.307+05	2.238+00	40424.6	2.491+03	4.697-10	2.132+14	2.331+14	.998462	1.933121	3.3268	7.379-01
30	2.154+00	2.479+05	3.164+00	43059.9	3.462+03	6.116-10	2.777+14	3.044+14	.998440	1.968006	3.3250	7.426-01
31	3.162+00	2.673+05	4.527+00	46200.6	4.916+03	8.090-10	3.673+14	4.033+14	.998417	1.985581	3.3172	7.358-01
32	4.642+00	2.888+05	6.560+00	49882.0	7.168+03	1.092-09	4.959+14	5.449+14	.998391	1.993538	3.3065	7.201-01
33	6.813+00	3.126+05	9.613+00	54208.7	1.071+04	1.500-09	6.810+14	7.486+14	.998365	1.997097	3.2970	7.054-01
34	1.000+01	3.380+05	1.410+01	59110.8	1.600+04	2.057-09	9.337+14	1.026+15	.998342	1.998545	3.3002	7.178-01
35	1.468+01	3.645+05	2.039+01	64702.2	2.295+04	2.695-09	1.223+15	1.345+15	.998343	1.999253	3.3261	7.742-01
36	2.154+01	3.924+05	2.876+01	70860.2	3.082+04	3.304-09	1.500+15	1.649+15	.998371	1.999549	3.3663	8.681-01
37	3.162+01	4.230+05	3.956+01	77904.8	3.809+04	3.715-09	1.687+15	1.854+15	.998438	1.999709	3.4210	9.993-01
38	4.642+01	4.591+05	5.350+01	85446.2	4.464+04	3.970-09	1.802+15	1.982+15	.998519	1.999794	3.4357	1.122+00
39	6.813+01	5.039+05	7.143+01	94076.5	4.913+04	3.968-09	1.802+15	1.981+15	.998622	1.999848	3.4900	1.298+00
40	1.000+02	5.653+05	9.469+01	103382.4	4.893+04	3.600-09	1.634+15	1.797+15	.998749	1.999892	3.5114	1.441+00

TEFF = 35000

LOG G = 4.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	IGN(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.797-05	21629.6	8.060-01	2.970-13	1.348+11	1.351+11	.999538	1.011820	3.2119	3.210-01
2	4.642-05	1.321+03	1.442-04	22515.4	1.196+00	4.231-13	1.921+11	1.927+11	.999512	1.027312	3.1745	3.228-01
3	6.813-05	2.630+03	2.112-04	22767.4	1.766+00	6.178-13	2.805+11	2.813+11	.999468	1.025979	3.1737	3.256-01
4	1.000-04	3.934+03	3.085-04	23056.0	2.594+00	8.964-13	4.069+11	4.081+11	.999422	1.025827	3.1719	3.291-01
5	1.468-04	5.241+03	4.497-04	23360.5	3.798+00	1.295-12	5.879+11	5.896+11	.999372	1.026050	3.1703	3.333-01
6	2.154-04	6.552+03	6.541-04	23674.0	5.539+00	1.864-12	8.461+11	8.485+11	.999319	1.026406	3.1702	3.385-01
7	3.162-04	7.869+03	9.490-04	23989.4	8.049+00	2.673-12	1.214+12	1.217+12	.999262	1.026663	3.1739	3.448-01
8	4.642-04	9.193+03	1.373-03	24319.1	1.166+01	3.818-12	1.733+12	1.739+12	.999201	1.027213	3.1793	3.522-01
9	6.813-04	1.053+04	1.982-03	24680.0	1.682+01	5.430-12	2.465+12	2.472+12	.999138	1.028557	3.1819	3.606-01
10	1.000-03	1.187+04	2.854-03	25059.4	2.421+01	7.694-12	3.493+12	3.503+12	.999070	1.030309	3.1853	3.706-01
11	1.468-03	1.323+04	4.097-03	25463.8	3.475+01	1.087-11	4.934+12	4.950+12	.998999	1.032716	3.1793	3.815-01
12	2.154-03	1.459+04	5.866-03	25835.0	4.977+01	1.534-11	6.965+12	6.988+12	.998921	1.033790	3.1793	3.944-01
13	3.162-03	1.596+04	8.371-03	26165.5	7.099+01	2.161-11	9.811+12	9.842+12	.998835	1.033319	3.1901	4.097-01
14	4.642-03	1.734+04	1.190-02	26463.0	1.007+02	3.031-11	1.376+13	1.380+13	.998742	1.031762	3.2116	4.275-01
15	6.813-03	1.872+04	1.686-02	26746.9	1.419+02	4.226-11	1.919+13	1.923+13	.998643	1.029880	3.2420	4.483-01
16	1.000-02	2.011+04	2.378-02	27054.0	1.985+02	5.845-11	2.654+13	2.660+13	.998540	1.028769	3.2772	4.723-01
17	1.468-02	2.150+04	3.339-02	27401.6	2.756+02	8.012-11	3.638+13	3.646+13	.998435	1.028765	3.3145	5.001-01
18	2.154-02	2.292+04	4.667-02	27793.2	3.797+02	1.088-10	4.941+13	4.953+13	.998328	1.029892	3.3545	5.324-01
19	3.162-02	2.437+04	6.494-02	28252.9	5.188+02	1.463-10	6.642+13	6.659+13	.998222	1.032873	3.3962	5.695-01
20	4.642-02	2.584+04	8.996-02	28817.6	7.035+02	1.944-10	8.828+13	8.855+13	.998121	1.039210	3.4360	6.119-01
21	6.813-02	2.737+04	1.240-01	29518.3	9.472+02	2.554-10	1.160+14	1.164+14	.998030	1.051363	3.4715	6.604-01
22	1.000-01	2.895+04	1.703-01	30374.8	1.267+03	3.317-10	1.506+14	1.515+14	.997951	1.073597	3.5025	7.170-01
23	1.468-01	3.060+04	2.325-01	31399.6	1.685+03	4.259-10	1.933+14	1.953+14	.997890	1.113350	3.5296	7.835-01
24	2.154-01	3.233+04	3.159-01	32596.7	2.228+03	5.406-10	2.454+14	2.496+14	.997852	1.181353	3.5531	8.624-01
25	3.162-01	3.415+04	4.265-01	33959.7	2.928+03	6.783-10	3.079+14	3.165+14	.997847	1.287494	3.5751	9.578-01
26	4.642-01	3.608+04	5.722-01	35494.6	3.826+03	8.418-10	3.822+14	3.985+14	.997863	1.433833	3.5919	1.069+00
27	6.813-01	3.813+04	7.645-01	37167.4	4.985+03	1.040-09	4.720+14	4.995+14	.997885	1.592482	3.6038	1.184+00
28	1.000+00	4.035+04	1.022+00	39043.1	6.523+03	1.286-09	5.838+14	6.264+14	.997902	1.738417	3.6052	1.283+00
29	1.468+00	4.280+04	1.376+00	41140.2	8.634+03	1.607-09	7.296+14	7.907+14	.997904	1.846691	3.6045	1.352+00
30	2.154+00	4.558+04	1.879+00	43763.3	1.168+04	2.035-09	9.238+14	1.008+15	.997901	1.922494	3.5923	1.371+00
31	3.162+00	4.874+04	2.613+00	46686.9	1.615+04	2.635-09	1.196+15	1.310+15	.997879	1.961078	3.5876	1.373+00
32	4.642+00	5.236+04	3.709+00	50410.5	2.295+04	3.463-09	1.572+15	1.725+15	.997863	1.982509	3.5719	1.326+00
33	6.813+00	5.646+04	5.360+00	54550.0	3.336+04	4.649-09	2.111+15	2.318+15	.997835	1.991699	3.5661	1.314+00
34	1.000+01	6.088+04	7.741+00	59474.6	4.829+04	6.174-09	2.803+15	3.079+15	.997823	1.995917	3.5806	1.373+00
35	1.468+01	6.545+04	1.095+01	64927.2	6.751+04	7.903-09	3.588+15	3.943+15	.997833	1.997874	3.6273	1.544+00
36	2.154+01	7.016+04	1.508+01	71127.9	9.016+04	9.635-09	4.374+15	4.807+15	.997874	1.998724	3.6808	1.783+00
37	3.162+01	7.511+04	2.025+01	77997.4	1.149+05	1.120-08	5.084+15	5.587+15	.997941	1.999129	3.7499	2.121+00
38	4.642+01	8.054+04	2.673+01	85658.3	1.422+05	1.262-08	5.731+15	6.299+15	.998023	1.999350	3.7741	2.440+00
39	6.813+01	8.666+04	3.485+01	94145.5	1.713+05	1.383-08	6.279+15	6.902+15	.998116	1.999474	3.8394	2.905+00
40	1.000+02	9.389+04	4.512+01	103485.9	1.968+05	1.447-08	6.568+15	7.220+15	.998227	1.999564	3.9126	3.290+00

TEFF = 35000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	1.246-04	21510.1	3.573+00	1.325-12	6.016+11	6.019+11	.999323	1.002243	3.2638	3.354-01
2	4.642-05	1.018+02	1.385-04	22347.9	3.990+00	1.424-12	6.465+11	6.471+11	.999332	1.006611	3.2010	3.354-01
3	6.813-05	4.766+02	2.026-04	22567.0	5.913+00	2.090-12	9.489+11	9.496+11	.999270	1.005998	3.2094	3.413-01
4	1.000-04	8.427+02	2.950-04	22828.4	8.684+00	3.035-12	1.378+12	1.379+12	.999205	1.005794	3.2177	3.482-01
5	1.468-04	1.206+03	4.278-04	23115.8	1.266+01	4.370-12	1.984+12	1.985+12	.999137	1.005788	3.2237	3.561-01
6	2.154-04	1.569+03	6.181-04	23428.3	1.836+01	6.252-12	2.838+12	2.840+12	.999066	1.005945	3.2274	3.651-01
7	3.162-04	1.933+03	8.901-04	23751.7	2.650+01	8.900-12	4.041+12	4.042+12	.998990	1.006156	3.2318	3.757-01
8	4.642-04	2.297+03	1.277-03	24075.9	3.808+01	1.262-11	5.728+12	5.731+12	.998909	1.006341	3.2387	3.880-01
9	6.813-04	2.662+03	1.826-03	24394.3	5.448+01	1.782-11	8.088+12	8.091+12	.998822	1.006451	3.2495	4.024-01
10	1.000-03	3.028+03	2.602-03	24698.8	7.760+01	2.506-11	1.138+13	1.138+13	.998729	1.006429	3.2657	4.192-01
11	1.468-03	3.394+03	3.691-03	24977.3	1.100+02	3.513-11	1.595+13	1.595+13	.998628	1.006201	3.2901	4.390-01
12	2.154-03	3.760+03	5.214-03	25230.8	1.550+02	4.903-11	2.226+13	2.226+13	.998519	1.005809	3.3225	4.619-01
13	3.162-03	4.126+03	7.333-03	25485.7	2.174+02	6.806-11	3.090+13	3.089+13	.998404	1.005449	3.3615	4.887-01
14	4.642-03	4.491+03	1.026-02	25773.2	3.030+02	9.380-11	4.258+13	4.258+13	.998284	1.005289	3.4026	5.204-01
15	6.813-03	4.857+03	1.429-02	26086.9	4.195+02	1.283-10	5.826+13	5.823+13	.998160	1.005274	3.4456	5.581-01
16	1.000-02	5.223+03	1.977-02	26418.8	5.768+02	1.742-10	7.910+13	7.906+13	.998033	1.005354	3.4948	6.026-01
17	1.468-02	5.589+03	2.721-02	26802.4	7.871+02	2.344-10	1.064+14	1.063+14	.997903	1.005717	3.5463	6.547-01
18	2.154-02	5.958+03	3.722-02	27271.7	1.066+03	3.121-10	1.417+14	1.416+14	.997776	1.006611	3.5951	7.151-01
19	3.162-02	6.332+03	5.064-02	27848.7	1.435+03	4.112-10	1.867+14	1.866+14	.997654	1.008375	3.6390	7.854-01
20	4.642-02	6.712+03	6.854-02	28548.0	1.919+03	5.365-10	2.436+14	2.435+14	.997539	1.011616	3.6765	8.654-01
21	6.813-02	7.101+03	9.235-02	29381.1	2.555+03	6.937-10	3.149+14	3.150+14	.997435	1.017519	3.7084	9.564-01
22	1.000-01	7.501+03	1.239-01	30358.5	3.386+03	8.894-10	4.038+14	4.043+14	.997343	1.028412	3.7360	1.061+00
23	1.468-01	7.916+03	1.656-01	31491.9	4.470+03	1.131-09	5.133+14	5.150+14	.997267	1.048859	3.7608	1.182+00
24	2.154-01	8.346+03	2.203-01	32787.8	5.877+03	1.425-09	6.470+14	6.516+14	.997213	1.087064	3.7841	1.325+00
25	3.162-01	8.793+03	2.917-01	34276.1	7.685+03	1.776-09	8.063+14	8.178+14	.997193	1.158138	3.8099	1.499+00
26	4.642-01	9.258+03	3.837-01	35995.9	9.983+03	2.184-09	9.913+14	1.018+15	.997228	1.281708	3.8330	1.714+00
27	6.813-01	9.746+03	5.015-01	37814.9	1.288+04	2.661-09	1.208+15	1.260+15	.997280	1.442065	3.8562	1.967+00
28	1.000+00	1.026+04	6.532-01	39674.9	1.657+04	3.236-09	1.469+15	1.555+15	.997323	1.602252	3.8695	2.220+00
29	1.468+00	1.082+04	8.542-01	41854.3	2.146+04	3.943-09	1.790+15	1.922+15	.997366	1.752452	3.8598	2.415+00
30	2.154+00	1.145+04	1.130+00	44092.3	2.817+04	4.892-09	2.221+15	2.406+15	.997366	1.848937	3.8629	2.547+00
31	3.162+00	1.218+04	1.529+00	47186.3	3.795+04	6.136-09	2.786+15	3.040+15	.997382	1.925578	3.8476	2.492+00
32	4.642+00	1.304+04	2.131+00	50640.1	5.281+04	7.942-09	3.605+15	3.948+15	.997366	1.963245	3.8363	2.428+00
33	6.813+00	1.403+04	3.034+00	54952.9	7.521+04	1.041-08	4.727+15	5.185+15	.997358	1.983215	3.8306	2.403+00
34	1.000+01	1.509+04	4.311+00	59674.6	1.067+05	1.360-08	6.175+15	6.778+15	.997348	1.991382	3.8579	2.611+00
35	1.468+01	1.618+04	5.975+00	65126.2	1.464+05	1.710-08	7.762+15	8.525+15	.997372	1.995542	3.9201	3.015+00
36	2.154+01	1.729+04	8.070+00	71259.4	1.940+05	2.070-08	9.398+15	1.032+16	.997425	1.997301	3.9790	3.544+00
37	3.162+01	1.844+04	1.064+01	78211.2	2.484+05	2.415-08	1.096+16	1.204+16	.997506	1.998150	4.0589	4.286+00
38	4.642+01	1.967+04	1.384+01	85749.1	3.118+05	2.765-08	1.255+16	1.379+16	.997593	1.998586	4.0816	4.973+00
39	6.813+01	2.102+04	1.780+01	94270.0	3.849+05	3.104-08	1.409+16	1.548+16	.997693	1.998828	4.1566	5.997+00
40	1.000+02	2.253+04	2.273+01	103480.1	4.624+05	3.397-08	1.542+16	1.695+16	.997801	1.998965	4.2435	6.858+00

TEFF = 35000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.995-05	21444.6	8.787+00	3.270-12	1.484+12	1.485+12	.999149	1.000796	3.3188	3.506-01
2	4.642-05	1.080+02	1.312-04	22279.3	1.282+01	4.595-12	2.086+12	2.086+12	.999101	1.001850	3.2733	3.577-01
3	6.813-05	2.160+02	1.910-04	22505.7	1.870+01	6.629-12	3.010+12	3.010+12	.999022	1.001722	3.2877	3.670-01
4	1.000-04	3.236+02	2.765-04	22777.3	2.708+01	9.489-12	4.308+12	4.308+12	.998939	1.001708	3.2995	3.778-01
5	1.468-04	4.308+02	3.983-04	23066.0	3.901+01	1.350-11	6.128+12	6.126+12	.998852	1.001726	3.3108	3.904-01
6	2.154-04	5.379+02	5.708-04	23361.9	5.590+01	1.910-11	8.670+12	8.668+12	.998760	1.001754	3.3235	4.052-01
7	3.162-04	6.449+02	8.141-04	23653.6	7.971+01	2.690-11	1.221+13	1.221+13	.998661	1.001764	3.3400	4.227-01
8	4.642-04	7.517+02	1.155-03	23931.7	1.130+02	3.771-11	1.712+13	1.711+13	.998556	1.001736	3.3617	4.435-01
9	6.813-04	8.581+02	1.631-03	24180.3	1.595+02	5.265-11	2.390+13	2.389+13	.998442	1.001641	3.3927	4.685-01
10	1.000-03	9.639+02	2.290-03	24403.2	2.237+02	7.316-11	3.321+13	3.319+13	.998320	1.001495	3.4366	4.984-01
11	1.468-03	1.069+03	3.195-03	24636.6	3.116+02	1.009-10	4.583+13	4.579+13	.998191	1.001377	3.4863	5.341-01
12	2.154-03	1.173+03	4.430-03	24903.5	4.311+02	1.381-10	6.272+13	6.266+13	.998059	1.001318	3.5338	5.768-01
13	3.162-03	1.277+03	6.102-03	25185.0	5.921+02	1.877-10	8.520+13	8.512+13	.997922	1.001281	3.5818	6.275-01
14	4.642-03	1.379+03	8.349-03	25467.8	8.077+02	2.532-10	1.149+14	1.148+14	.997778	1.001243	3.6364	6.876-01
15	6.813-03	1.481+03	1.135-02	25781.6	1.094+03	3.386-10	1.537+14	1.535+14	.997631	1.001253	3.6953	7.595-01
16	1.000-02	1.583+03	1.531-02	26160.1	1.469+03	4.483-10	2.035+14	2.032+14	.997486	1.001376	3.7519	8.449-01
17	1.468-02	1.684+03	2.053-02	26617.4	1.959+03	5.878-10	2.668+14	2.664+14	.997343	1.001663	3.8032	9.435-01
18	2.154-02	1.786+03	2.739-02	27168.7	2.599+03	7.638-10	3.467+14	3.462+14	.997206	1.002215	3.8480	1.056+00
19	3.162-02	1.890+03	3.638-02	27825.3	3.432+03	9.844-10	4.469+14	4.462+14	.997075	1.003208	3.8865	1.184+00
20	4.642-02	1.995+03	4.813-02	28596.6	4.513+03	1.260-09	5.719+14	5.710+14	.996951	1.004981	3.9194	1.328+00
21	6.813-02	2.103+03	6.350-02	29491.2	5.918+03	1.602-09	7.271+14	7.262+14	.996836	1.008190	3.9479	1.492+00
22	1.000-01	2.214+03	8.357-02	30519.0	7.741+03	2.024-09	9.188+14	9.181+14	.996730	1.014155	3.9736	1.679+00
23	1.468-01	2.329+03	1.097-01	31693.2	1.010+04	2.542-09	1.154+15	1.155+15	.996642	1.025593	3.9974	1.895+00
24	2.154-01	2.448+03	1.436-01	33029.2	1.314+04	3.170-09	1.439+15	1.443+15	.996576	1.047890	4.0204	2.151+00
25	3.162-01	2.571+03	1.873-01	34540.7	1.704+04	3.921-09	1.780+15	1.792+15	.996540	1.091316	4.0455	2.460+00
26	4.642-01	2.700+03	2.430-01	36249.1	2.197+04	4.799-09	2.179+15	2.211+15	.996551	1.171623	4.0720	2.842+00
27	6.813-01	2.833+03	3.136-01	38119.2	2.817+04	5.813-09	2.639+15	2.713+15	.996609	1.298901	4.0992	3.307+00
28	1.000+00	2.972+03	4.027-01	40092.6	3.593+04	6.994-09	3.175+15	3.315+15	.996686	1.459469	4.1191	3.823+00
29	1.468+00	3.122+03	5.173-01	42209.2	4.587+04	8.414-09	3.820+15	4.051+15	.996758	1.624006	4.1240	4.294+00
30	2.154+00	3.287+03	6.713-01	44570.6	5.922+04	1.022-08	4.638+15	4.983+15	.996809	1.763116	4.1246	4.575+00
31	3.162+00	3.483+03	8.934-01	47634.8	7.855+04	1.261-08	5.726+15	6.217+15	.996855	1.875068	4.1036	4.499+00
32	4.642+00	3.715+03	1.226+00	50991.2	1.076+05	1.610-08	7.309+15	7.979+15	.996852	1.934541	4.0944	4.413+00
33	6.813+00	3.983+03	1.717+00	55201.3	1.506+05	2.078-08	9.434+15	1.033+16	.996856	1.968848	4.0975	4.466+00
34	1.000+01	4.270+03	2.396+00	59871.9	2.096+05	2.665-08	1.210+16	1.326+16	.996859	1.983885	4.1355	4.966+00
35	1.468+01	4.561+03	3.264+00	65272.0	2.836+05	3.305-08	1.501+16	1.646+16	.996898	1.991589	4.2054	5.814+00
36	2.154+01	4.859+03	4.345+00	71458.6	3.730+05	3.970-08	1.802+16	1.978+16	.996969	1.994951	4.2686	6.885+00
37	3.162+01	5.165+03	5.664+00	78288.9	4.779+05	4.642-08	2.107+16	2.314+16	.997059	1.996475	4.3496	8.397+00
38	4.642+01	5.491+03	7.290+00	85873.8	6.029+05	5.339-08	2.424+16	2.662+16	.997160	1.997292	4.3769	9.792+00
39	6.813+01	5.842+03	9.293+00	94309.0	7.513+05	6.057-08	2.750+16	3.020+16	.997270	1.997724	4.4532	1.190+01
40	1.000+02	6.228+03	1.177+01	103566.3	9.198+05	6.755-08	3.067+16	3.368+16	.997386	1.997963	4.5535	1.377+01

TEFF = 40000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	F	RHO	NA	NE	ICN(H)	ICN(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.456-05	25632.5	2.629+00	8.041-13	3.651+11	3.779+11	.999515	1.345177	3.5311	3.355-01
2	4.642-05	4.586+02	1.376-04	26484.4	3.851+00	1.134-12	5.146+11	5.387+11	.999495	1.461614	3.4792	3.408-01
3	6.813-05	9.158+02	2.007-04	26725.9	5.657+00	1.653-12	7.503+11	7.827+11	.999444	1.426540	3.4818	3.438-01
4	1.000-04	1.379+03	2.928-04	27031.5	8.290+00	2.397-12	1.088+12	1.133+12	.999393	1.405235	3.4839	3.481-01
5	1.468-04	1.841+03	4.261-04	27383.0	1.210+01	3.456-12	1.569+12	1.632+12	.999340	1.394501	3.4846	3.537-01
6	2.154-04	2.304+03	6.182-04	27787.9	1.759+01	4.951-12	2.248+12	2.338+12	.999285	1.394018	3.4836	3.609-01
7	3.162-04	2.769+03	8.940-04	28235.7	2.548+01	7.054-12	3.203+12	3.332+12	.999229	1.401187	3.4819	3.698-01
8	4.642-04	3.237+03	1.288-03	28721.4	3.674+01	9.998-12	4.539+12	4.728+12	.999171	1.414150	3.4794	3.805-01
9	6.813-04	3.707+03	1.849-03	29230.6	5.280+01	1.410-11	6.403+12	6.680+12	.999111	1.429695	3.4767	3.935-01
10	1.000-03	4.181+03	2.643-03	29744.4	7.552+01	1.981-11	8.996+12	9.397+12	.999047	1.443931	3.4755	4.089-01
11	1.468-03	4.657+03	3.761-03	30241.4	1.076+02	2.774-11	1.260+13	1.317+13	.998978	1.452635	3.4782	4.270-01
12	2.154-03	5.133+03	5.328-03	30694.3	1.523+02	3.873-11	1.758+13	1.837+13	.998901	1.451673	3.4870	4.486-01
13	3.162-03	5.610+03	7.511-03	31095.7	2.145+02	5.386-11	2.445+13	2.553+13	.998816	1.440654	3.5065	4.741-01
14	4.642-03	6.085+03	1.053-02	31460.4	3.000+02	7.453-11	3.383+13	3.527+13	.998723	1.423407	3.5358	5.040-01
15	6.813-03	6.560+03	1.469-02	31804.7	4.167+02	1.025-10	4.652+13	4.839+13	.998623	1.403697	3.5726	5.387-01
16	1.000-02	7.035+03	2.039-02	32147.9	5.744+02	1.399-10	6.350+13	6.592+13	.998518	1.384767	3.6148	5.789-01
17	1.468-02	7.510+03	2.815-02	32513.8	7.859+02	1.894-10	8.597+13	8.911+13	.998410	1.370210	3.6605	6.255-01
18	2.154-02	7.988+03	3.866-02	32905.9	1.067+03	2.542-10	1.154+14	1.195+14	.998300	1.360075	3.7095	6.798-01
19	3.162-02	8.469+03	5.281-02	33343.5	1.437+03	3.379-10	1.534+14	1.588+14	.998191	1.357532	3.7608	7.440-01
20	4.642-02	8.955+03	7.171-02	33872.0	1.919+03	4.441-10	2.016+14	2.088+14	.998089	1.367674	3.8103	8.192-01
21	6.813-02	9.450+03	9.684-02	34519.7	2.542+03	5.765-10	2.617+14	2.718+14	.997998	1.394528	3.8544	9.074-01
22	1.000-01	9.957+03	1.300-01	35308.0	3.345+03	7.397-10	3.358+14	3.503+14	.997925	1.440180	3.8910	1.010+00
23	1.468-01	1.048+04	1.737-01	36253.3	4.374+03	9.392-10	4.264+14	4.475+14	.997866	1.505034	3.9191	1.129+00
24	2.154-01	1.102+04	2.311-01	37361.8	5.700+03	1.183-09	5.372+14	5.680+14	.997820	1.584432	3.9394	1.261+00
25	3.162-01	1.159+04	3.067-01	38644.6	7.419+03	1.483-09	6.732+14	7.177+14	.997784	1.672143	3.9530	1.400+00
26	4.642-01	1.220+04	4.073-01	40194.1	9.692+03	1.853-09	8.414+14	9.050+14	.997759	1.764687	3.9566	1.532+00
27	6.813-01	1.285+04	5.436-01	42027.5	1.278+04	2.327-09	1.056+15	1.145+15	.997735	1.845186	3.9533	1.645+00
28	1.000+00	1.357+04	7.311-01	44046.4	1.702+04	2.951-09	1.340+15	1.459+15	.997700	1.901730	3.9537	1.740+00
29	1.468+00	1.436+04	9.977-01	46644.8	2.309+04	3.771-09	1.712+15	1.872+15	.997672	1.944568	3.9420	1.765+00
30	2.154+00	1.526+04	1.384+00	49485.6	3.194+04	4.912-09	2.230+15	2.444+15	.997630	1.968584	3.9399	1.788+00
31	3.162+00	1.626+04	1.950+00	53228.0	4.496+04	6.424-09	2.916+15	3.200+15	.997605	1.984413	3.9331	1.769+00
32	4.642+00	1.737+04	2.771+00	57367.5	6.378+04	8.456-09	3.839+15	4.214+15	.997577	1.991669	3.9462	1.849+00
33	6.813+00	1.853+04	3.891+00	62368.3	8.888+04	1.083-08	4.919+15	5.403+15	.997580	1.995718	3.9853	2.041+00
34	1.000+01	1.973+04	5.337+00	67800.7	1.197+05	1.342-08	6.093+15	6.693+15	.997603	1.997439	4.0418	2.370+00
35	1.468+01	2.096+04	7.149+00	74237.0	1.555+05	1.592-08	7.226+15	7.939+15	.997665	1.998462	4.1051	2.794+00
36	2.154+01	2.227+04	9.391+00	81194.6	1.954+05	1.830-08	8.307+15	9.127+15	.997740	1.998836	4.1684	3.329+00
37	3.162+01	2.371+04	1.220+01	89135.5	2.413+05	2.057-08	9.340+15	1.026+16	.997831	1.999058	4.2002	3.849+00
38	4.642+01	2.534+04	1.573+01	97724.5	2.944+05	2.288-08	1.039+16	1.142+16	.997923	1.999188	4.2382	4.536+00
39	6.813+01	2.716+04	2.009+01	107460.6	3.527+05	2.493-08	1.132+16	1.244+16	.998024	1.999329	4.2847	5.431+00
40	1.000+02	2.929+04	2.552+01	118223.7	4.062+05	2.612-08	1.186+16	1.304+16	.998141	1.999496	4.3864	6.362+00

TEFF = 40000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.121-05	25892.3	8.736+00	2.667-12	1.211+12	1.233+12	.999327	1.174162	3.5792	3.459-01
2	4.642-05	1.341+02	1.330-04	26765.1	1.276+01	3.755-12	1.705+12	1.748+12	.999296	1.256654	3.5305	3.529-01
3	6.813-05	2.681+02	1.937-04	27030.4	1.863+01	5.433-12	2.466+12	2.525+12	.999230	1.234365	3.5396	3.605-01
4	1.000-04	4.017+02	2.809-04	27356.8	2.705+01	7.799-12	3.541+12	3.620+12	.999162	1.223192	3.5479	3.700-01
5	1.468-04	5.349+02	4.054-04	27724.9	3.905+01	1.111-11	5.045+12	5.156+12	.999093	1.218491	3.5560	3.814-01
6	2.154-04	6.682+02	5.822-04	28137.7	5.610+01	1.573-11	7.140+12	7.298+12	.999022	1.220012	3.5629	3.950-01
7	3.162-04	8.018+02	8.322-04	28587.9	8.017+01	2.212-11	1.004+13	1.026+13	.998948	1.226156	3.5686	4.110-01
8	4.642-04	9.358+02	1.184-03	29068.1	1.140+02	3.093-11	1.404+13	1.437+13	.998872	1.235682	3.5716	4.299-01
9	6.813-04	1.070+03	1.676-03	29541.4	1.614+02	4.306-11	1.955+13	2.002+13	.998791	1.242920	3.5751	4.521-01
10	1.000-03	1.205+03	2.360-03	29969.7	2.273+02	5.977-11	2.714+13	2.779+13	.998702	1.242603	3.5877	4.782-01
11	1.468-03	1.339+03	3.308-03	30352.9	3.182+02	8.268-11	3.754+13	3.841+13	.998603	1.235154	3.6116	5.088-01
12	2.154-03	1.473+03	4.610-03	30694.4	4.429+02	1.139-10	5.170+13	5.283+13	.998495	1.222528	3.6468	5.445-01
13	3.162-03	1.606+03	6.391-03	31011.8	6.126+02	1.560-10	7.084+13	7.228+13	.998379	1.207680	3.6916	5.864-01
14	4.642-03	1.739+03	8.810-03	31323.8	8.418+02	2.125-10	9.646+13	9.827+13	.998256	1.193367	3.7432	6.355-01
15	6.813-03	1.870+03	1.207-02	31647.7	1.149+03	2.872-10	1.304+14	1.327+14	.998129	1.181509	3.7982	6.934-01
16	1.000-02	2.002+03	1.645-02	31990.6	1.557+03	3.852-10	1.749+14	1.777+14	.997998	1.172516	3.8543	7.619-01
17	1.468-02	2.132+03	2.227-02	32363.5	2.094+03	5.122-10	2.326+14	2.362+14	.997865	1.167267	3.9138	8.435-01
18	2.154-02	2.263+03	2.996-02	32803.4	2.795+03	6.745-10	3.062+14	3.110+14	.997736	1.168460	3.9727	9.404-01
19	3.162-02	2.393+03	4.005-02	33341.0	3.703+03	8.785-10	3.988+14	4.055+14	.997614	1.178634	4.0273	1.055+00
20	4.642-02	2.525+03	5.320-02	33993.2	4.868+03	1.132-09	5.138+14	5.234+14	.997505	1.200054	4.0756	1.192+00
21	6.813-02	2.658+03	7.024-02	34786.8	6.359+03	1.442-09	6.546+14	6.692+14	.997412	1.236065	4.1164	1.354+00
22	1.000-01	2.793+03	9.219-02	35723.2	8.256+03	1.818-09	8.255+14	8.482+14	.997339	1.289584	4.1495	1.546+00
23	1.468-01	2.931+03	1.204-01	36805.4	1.066+04	2.271-09	1.031+15	1.067+15	.997292	1.362797	4.1748	1.773+00
24	2.154-01	3.073+03	1.563-01	38019.1	1.371+04	2.815-09	1.278+15	1.334+15	.997257	1.451850	4.1948	2.039+00
25	3.162-01	3.220+03	2.024-01	39399.0	1.758+04	3.466-09	1.574+15	1.659+15	.997239	1.556193	4.2058	2.331+00
26	4.642-01	3.375+03	2.618-01	40912.7	2.256+04	4.262-09	1.935+15	2.059+15	.997223	1.658881	4.2135	2.634+00
27	6.813-01	3.540+03	3.400-01	42684.2	2.911+04	5.244-09	2.381+15	2.558+15	.997212	1.758841	4.2125	2.898+00
28	1.000+00	3.721+03	4.459-01	44703.3	3.798+04	6.508-09	2.955+15	3.198+15	.997194	1.840264	4.2088	3.093+00
29	1.468+00	3.924+03	5.948-01	47147.9	5.049+04	8.181-09	3.714+15	4.043+15	.997172	1.902529	4.1973	3.176+00
30	2.154+00	4.156+03	8.098-01	49971.8	6.862+04	1.047-08	4.753+15	5.194+15	.997139	1.943134	4.1950	3.209+00
31	3.162+00	4.419+03	1.123+00	53595.6	9.506+04	1.351-08	6.132+15	6.717+15	.997118	1.970554	4.1936	3.227+00
32	4.642+00	4.706+03	1.567+00	57641.9	1.323+05	1.747-08	7.930+15	8.698+15	.997096	1.983864	4.2181	3.471+00
33	6.813+00	5.005+03	2.155+00	62556.1	1.809+05	2.199-08	9.983+15	1.096+16	.997111	1.991626	4.2699	3.931+00
34	1.000+01	5.311+03	2.901+00	67973.3	2.406+05	2.691-08	1.222+16	1.341+16	.997147	1.994984	4.3323	4.621+00
35	1.468+01	5.625+03	3.824+00	74338.2	3.113+05	3.185-08	1.446+16	1.588+16	.997219	1.996954	4.4001	5.515+00
36	2.154+01	5.954+03	4.955+00	81320.9	3.936+05	3.680-08	1.670+16	1.834+16	.997307	1.997681	4.4685	6.627+00
37	3.162+01	6.311+03	6.361+00	89169.4	4.912+05	4.187-08	1.901+16	2.088+16	.997405	1.998090	4.5012	7.716+00
38	4.642+01	6.705+03	8.116+00	97810.2	6.081+05	4.724-08	2.145+16	2.356+16	.997507	1.998332	4.5450	9.154+00
39	6.813+01	7.136+03	1.027+01	107501.9	7.434+05	5.254-08	2.385+16	2.621+16	.997616	1.998589	4.5930	1.104+01
40	1.000+02	7.620+03	1.292+01	118238.2	8.891+05	5.720-08	2.597+16	2.853+16	.997735	1.998897	4.7134	1.313+01



TEFF = 45000

LOG G = 4.5

TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	IGN(H)	ION(HE)	LOG G RAD	K(ROSS)	
1	0.000+00	0.000+00	9.124-05	28450.3	2.471+00	6.630-13	3.010+11	3.281+11	.999610	1.890640	3.6455	3.464-01
2	4.642-05	5.432+02	1.337-04	29082.7	3.627+00	9.516-13	4.320+11	4.714+11	.999581	1.904661	3.6341	3.483-01
3	6.813-05	1.082+03	1.958-04	29294.4	5.321+00	1.387-12	6.298+11	6.859+11	.999540	1.885279	3.6425	3.506-01
4	1.000-04	1.622+03	2.863-04	29578.6	7.783+00	2.011-12	9.130+11	9.928+11	.999498	1.869334	3.6502	3.535-01
5	1.468-04	2.166+03	4.179-04	29920.5	1.135+01	2.901-12	1.317+12	1.431+12	.999453	1.857051	3.6571	3.575-01
6	2.154-04	2.712+03	6.085-04	30341.6	1.651+01	4.162-12	1.890+12	2.051+12	.999408	1.851190	3.6618	3.627-01
7	3.162-04	3.264+03	8.839-04	30831.2	2.394+01	5.942-12	2.698+12	2.928+12	.999361	1.850994	3.6646	3.692-01
8	4.642-04	3.822+03	1.280-03	31391.2	3.464+01	8.442-12	3.832+12	4.162+12	.999312	1.856107	3.6654	3.771-01
9	6.813-04	4.386+03	1.849-03	32021.4	5.001+01	1.194-11	5.421+12	5.892+12	.999262	1.865436	3.6575	3.867-01
10	1.000-03	4.957+03	2.661-03	32654.6	7.205+01	1.686-11	7.656+12	8.326+12	.999208	1.872944	3.6465	3.980-01
11	1.468-03	5.532+03	3.815-03	33252.7	1.035+02	2.378-11	1.080+13	1.175+13	.999148	1.876329	3.6390	4.119-01
12	2.154-03	6.109+03	5.447-03	33790.2	1.480+02	3.348-11	1.520+13	1.653+13	.999083	1.874634	3.6382	4.293-01
13	3.162-03	6.685+03	7.736-03	34272.6	2.104+02	4.692-11	2.130+13	2.316+13	.999012	1.868722	3.6468	4.509-01
14	4.642-03	7.258+03	1.092-02	34718.3	2.967+02	6.536-11	2.968+13	3.223+13	.998935	1.860016	3.6634	4.771-01
15	6.813-03	7.829+03	1.532-02	35142.4	4.150+02	9.038-11	4.103+13	4.451+13	.998854	1.849416	3.6869	5.088-01
16	1.000-02	8.398+03	2.136-02	35558.8	5.756+02	1.239-10	5.627+13	6.098+13	.998766	1.838062	3.7161	5.463-01
17	1.468-02	8.965+03	2.958-02	35972.1	7.910+02	1.685-10	7.649+13	8.281+13	.998677	1.826229	3.7505	5.904-01
18	2.154-02	9.533+03	4.072-02	36383.3	1.077+03	2.270-10	1.031+14	1.115+14	.998583	1.814182	3.7909	6.422-01
19	3.162-02	1.010+04	5.569-02	36812.8	1.453+03	3.028-10	1.374+14	1.485+14	.998488	1.803867	3.8371	7.029-01
20	4.642-02	1.068+04	7.572-02	37306.7	1.941+03	3.992-10	1.812+14	1.956+14	.998397	1.799189	3.8842	7.717-01
21	6.813-02	1.126+04	1.025-01	37905.7	2.571+03	5.203-10	2.362+14	2.551+14	.998309	1.803332	3.9280	8.479-01
22	1.000-01	1.187+04	1.383-01	38649.6	3.385+03	6.714-10	3.048+14	3.295+14	.998227	1.817767	3.9658	9.303-01
23	1.468-01	1.250+04	1.863-01	39579.8	4.441+03	8.593-10	3.901+14	4.227+14	.998154	1.841545	3.9958	1.016+00
24	2.154-01	1.316+04	2.510-01	40735.1	5.829+03	1.094-09	4.967+14	5.396+14	.998089	1.872350	4.0171	1.102+00
25	3.162-01	1.387+04	3.391-01	42169.0	7.684+03	1.391-09	6.316+14	6.883+14	.998033	1.905284	4.0292	1.180+00
26	4.642-01	1.464+04	4.606-01	43888.0	1.021+04	1.775-09	8.057+14	8.803+14	.997979	1.934482	4.0360	1.248+00
27	6.813-01	1.549+04	6.311-01	46045.6	1.376+04	2.275-09	1.033+15	1.131+15	.997934	1.958698	4.0336	1.293+00
28	1.000+00	1.642+04	8.736-01	48498.3	1.881+04	2.952-09	1.340+15	1.469+15	.997884	1.974635	4.0326	1.329+00
29	1.468+00	1.746+04	1.225+00	51631.9	2.617+04	3.854-09	1.750+15	1.921+15	.997846	1.985916	4.0253	1.332+00
30	2.154+00	1.861+04	1.735+00	55134.3	3.687+04	5.085-09	2.309+15	2.536+15	.997804	1.992009	4.0297	1.365+00
31	3.162+00	1.984+04	2.454+00	59493.7	5.178+04	6.616-09	3.004+15	3.300+15	.997785	1.995644	4.0461	1.445+00
32	4.642+00	2.113+04	3.417+00	64193.0	7.099+04	8.407-09	3.817+15	4.193+15	.997780	1.997522	4.0889	1.628+00
33	6.813+00	2.246+04	4.660+00	69915.1	9.404+04	1.023-08	4.642+15	5.101+15	.997814	1.998458	4.1423	1.868+00
34	1.000+01	2.387+04	6.224+00	76090.4	1.202+05	1.201-08	5.451+15	5.990+15	.997865	1.998953	4.2028	2.206+00
35	1.468+01	2.540+04	8.186+00	83383.2	1.491+05	1.359-08	6.170+15	6.781+15	.997944	1.999243	4.2492	2.562+00
36	2.154+01	2.712+04	1.066+01	91171.6	1.809+05	1.508-08	6.847+15	7.526+15	.998027	1.999360	4.2927	2.996+00
37	3.162+01	2.909+04	1.377+01	100187.6	2.165+05	1.642-08	7.453+15	8.192+15	.998124	1.999451	4.3178	3.479+00
38	4.642+01	3.136+04	1.764+01	109867.2	2.545+05	1.760-08	7.992+15	8.786+15	.998219	1.999559	4.3559	4.157+00
39	6.813+01	3.398+04	2.238+01	120894.6	2.922+05	1.837-08	8.338+15	9.167+15	.998325	1.999673	4.3936	5.003+00
40	1.000+02	3.724+04	2.830+01	133227.3	3.184+05	1.821-08	8.267+15	9.090+15	.998449	1.999780	4.4719	5.920+00

TEFF = 45000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LCG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.944-05	29026.7	8.478+00	2.240-12	1.017+12	1.099+12	.999471	1.795467	3.7057	3.540-01
2	4.642-05	1.562+02	1.304-04	29754.1	1.237+01	3.185-12	1.446+12	1.566+12	.999436	1.827985	3.6952	3.586-01
3	6.813-05	3.113+02	1.903-04	29993.1	1.806+01	4.618-12	2.096+12	2.265+12	.999382	1.799880	3.7104	3.645-01
4	1.000-04	4.674+02	2.768-04	30321.9	2.626+01	6.648-12	3.018+12	3.255+12	.999326	1.780250	3.7248	3.721-01
5	1.468-04	6.230+02	4.010-04	30701.5	3.800+01	9.509-12	4.317+12	4.649+12	.999269	1.766062	3.7389	3.816-01
6	2.154-04	7.789+02	5.782-04	31157.6	5.474+01	1.350-11	6.129+12	6.596+12	.999210	1.761224	3.7512	3.932-01
7	3.162-04	9.355+02	8.300-04	31692.9	7.848+01	1.902-11	8.637+12	9.300+12	.999151	1.765636	3.7593	4.069-01
8	4.642-04	1.093+03	1.186-03	32308.7	1.121+02	2.664-11	1.209+13	1.304+13	.999091	1.778068	3.7470	4.229-01
9	6.813-04	1.252+03	1.688-03	32888.2	1.595+02	3.723-11	1.690+13	1.823+13	.999026	1.784241	3.7369	4.423-01
10	1.000-03	1.411+03	2.389-03	33419.3	2.258+02	5.187-11	2.355+13	2.539+13	.998954	1.783845	3.7368	4.659-01
11	1.468-03	1.570+03	3.363-03	33907.1	3.178+02	7.197-11	3.268+13	3.521+13	.998876	1.778170	3.7461	4.946-01
12	2.154-03	1.728+03	4.703-03	34353.6	4.442+02	9.935-11	4.511+13	4.856+13	.998791	1.767739	3.7649	5.291-01
13	3.162-03	1.885+03	6.536-03	34766.9	6.164+02	1.363-10	6.189+13	6.655+13	.998698	1.753553	3.7928	5.702-01
14	4.642-03	2.041+03	9.021-03	35160.1	8.490+02	1.858-10	8.435+13	9.055+13	.998601	1.736849	3.8283	6.190-01
15	6.813-03	2.195+03	1.237-02	35537.1	1.160+03	2.514-10	1.141+14	1.223+14	.998498	1.718103	3.8714	6.769-01
16	1.000-02	2.349+03	1.685-02	35906.2	1.572+03	3.376-10	1.533+14	1.639+14	.998390	1.698630	3.9209	7.459-01
17	1.468-02	2.501+03	2.279-02	36280.5	2.113+03	4.496-10	2.041+14	2.178+14	.998278	1.680003	3.9753	8.270-01
18	2.154-02	2.652+03	3.063-02	36676.3	2.818+03	5.935-10	2.694+14	2.872+14	.998164	1.664228	4.0334	9.220-01
19	3.162-02	2.804+03	4.093-02	37128.5	3.729+03	7.761-10	3.523+14	3.751+14	.998051	1.655430	4.0912	1.032+00
20	4.642-02	2.956+03	5.442-02	37670.5	4.900+03	1.005-09	4.563+14	4.858+14	.997946	1.657172	4.1445	1.160+00
21	6.813-02	3.110+03	7.201-02	38333.7	6.399+03	1.289-09	5.852+14	6.240+14	.997847	1.671726	4.1909	1.305+00
22	1.000-01	3.267+03	9.497-02	39148.0	8.322+03	1.639-09	7.443+14	7.956+14	.997760	1.699932	4.2285	1.468+00
23	1.468-01	3.430+03	1.250-01	40136.5	1.080+04	2.070-09	9.400+14	1.009+15	.997683	1.739451	4.2568	1.646+00
24	2.154-01	3.599+03	1.643-01	41331.9	1.400+04	2.602-09	1.181+15	1.273+15	.997618	1.787423	4.2758	1.834+00
25	3.162-01	3.778+03	2.166-01	42784.2	1.823+04	3.264-09	1.482+15	1.604+15	.997563	1.838676	4.2848	2.012+00
26	4.642-01	3.970+03	2.872-01	44502.5	2.392+04	4.109-09	1.866+15	2.028+15	.997510	1.885032	4.2880	2.167+00
27	6.813-01	4.180+03	3.844-01	46540.3	3.176+04	5.208-09	2.364+15	2.579+15	.997459	1.922804	4.2878	2.283+00
28	1.000+00	4.413+03	5.219-01	49017.5	4.285+04	6.663-09	3.025+15	3.308+15	.997413	1.951879	4.2847	2.343+00
29	1.468+00	4.673+03	7.200-01	52049.3	5.886+04	8.610-09	3.909+15	4.284+15	.997371	1.972227	4.2806	2.382+00
30	2.154+00	4.960+03	1.002+00	55542.6	8.165+04	1.119-08	5.078+15	5.571+15	.997331	1.984034	4.2921	2.494+00
31	3.162+00	5.264+03	1.389+00	59780.6	1.125+05	1.432-08	6.500+15	7.135+15	.997316	1.991107	4.3214	2.731+00
32	4.642+00	5.577+03	1.892+00	64437.3	1.515+05	1.788-08	8.119+15	8.915+15	.997320	1.994902	4.3762	3.160+00
33	6.813+00	5.898+03	2.526+00	70072.3	1.987+05	2.157-08	9.792+15	1.075+16	.997364	1.996812	4.4361	3.688+00
34	1.000+01	6.233+03	3.312+00	76252.4	2.540+05	2.533-08	1.150+16	1.263+16	.997426	1.997818	4.5057	4.422+00
35	1.468+01	6.592+03	4.286+00	83510.1	3.185+05	2.900-08	1.317+16	1.446+16	.997514	1.998397	4.5533	5.181+00
36	2.154+01	6.984+03	5.500+00	91217.7	3.938+05	3.283-08	1.491+16	1.638+16	.997601	1.998611	4.6029	6.133+00
37	3.162+01	7.421+03	7.016+00	100385.0	4.825+05	3.654-08	1.659+16	1.822+16	.997708	1.998786	4.6349	7.163+00
38	4.642+01	7.906+03	8.884+00	109819.6	5.851+05	4.051-08	1.839+16	2.021+16	.997802	1.998984	4.6745	8.665+00
39	6.813+01	8.440+03	1.115+01	121086.8	6.994+05	4.389-08	1.993+16	2.190+16	.997917	1.999223	4.7178	1.052+01
40	1.000+02	9.060+03	1.393+01	133279.3	8.149+05	4.656-08	2.114+16	2.324+16	.998037	1.999437	4.8163	1.269+01

TEFF = 50000

LOG G = 4.5

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ION(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	9.115-05	30853.8	2.305+00	5.678-13	2.578+11	2.834+11	.999652	1.983605	3.7985	3.466-01
2	4.642-05	6.353+02	1.337-04	31508.9	3.384+00	8.163-13	3.706+11	4.073+11	.999625	1.985046	3.7954	3.477-01
3	6.813-05	1.266+03	1.960-04	31756.5	4.961+00	1.188-12	5.392+11	5.925+11	.999589	1.981705	3.8027	3.493-01
4	1.000-04	1.901+03	2.869-04	32096.1	7.257+00	1.719-12	7.804+11	8.573+11	.999553	1.978934	3.8070	3.515-01
5	1.468-04	2.541+03	4.195-04	32484.7	1.060+01	2.480-12	1.126+12	1.237+12	.999515	1.976464	3.8094	3.543-01
6	2.154-04	3.187+03	6.123-04	32941.9	1.545+01	3.567-12	1.619+12	1.778+12	.999474	1.974734	3.8086	3.580-01
7	3.162-04	3.839+03	8.919-04	33443.7	2.250+01	5.116-12	2.323+12	2.550+12	.999431	1.973461	3.8066	3.626-01
8	4.642-04	4.499+03	1.297-03	33993.4	3.271+01	7.320-12	3.323+12	3.648+12	.999385	1.972715	3.8030	3.682-01
9	6.813-04	5.165+03	1.881-03	34585.3	4.751+01	1.045-11	4.743+12	5.206+12	.999336	1.972395	3.7979	3.748-01
10	1.000-03	5.838+03	2.722-03	35208.1	6.886+01	1.488-11	6.754+12	7.412+12	.999285	1.972293	3.7918	3.829-01
11	1.468-03	6.516+03	3.928-03	35848.2	9.957+01	2.113-11	9.593+12	1.053+13	.999230	1.972184	3.7856	3.928-01
12	2.154-03	7.198+03	5.648-03	36464.4	1.435+02	2.994-11	1.359+13	1.491+13	.999170	1.971493	3.7837	4.054-01
13	3.162-03	7.881+03	8.086-03	37060.3	2.058+02	4.224-11	1.918+13	2.103+13	.999106	1.970324	3.7861	4.211-01
14	4.642-03	8.565+03	1.152-02	37633.7	2.931+02	5.927-11	2.691+13	2.952+13	.999038	1.968664	3.7930	4.403-01
15	6.813-03	9.249+03	1.632-02	38184.3	4.148+02	8.267-11	3.753+13	4.116+13	.998965	1.966507	3.8045	4.637-01
16	1.000-02	9.932+03	2.298-02	38701.3	5.822+02	1.145-10	5.198+13	5.699+13	.998888	1.963663	3.8216	4.922-01
17	1.468-02	1.061+04	3.216-02	39181.9	8.099+02	1.573-10	7.144+13	7.828+13	.998806	1.960041	3.8454	5.267-01
18	2.154-02	1.129+04	4.469-02	39631.7	1.115+03	2.142-10	9.725+13	1.065+14	.998719	1.955708	3.8774	5.685-01
19	3.162-02	1.197+04	6.166-02	40085.0	1.517+03	2.883-10	1.309+14	1.433+14	.998630	1.951316	3.9172	6.184-01
20	4.642-02	1.266+04	8.451-02	40607.4	2.041+03	3.829-10	1.738+14	1.902+14	.998545	1.948361	3.9593	6.745-01
21	6.813-02	1.336+04	1.153-01	41248.2	2.719+03	5.023-10	2.280+14	2.495+14	.998461	1.948049	3.9997	7.351-01
22	1.000-01	1.408+04	1.568-01	42058.1	3.599+03	6.518-10	2.959+14	3.239+14	.998382	1.951076	4.0356	7.976-01
23	1.468-01	1.484+04	2.131-01	43084.1	4.747+03	8.390-10	3.809+14	4.172+14	.998308	1.957183	4.0648	8.591-01
24	2.154-01	1.565+04	2.904-01	44381.9	6.268+03	1.075-09	4.880+14	5.348+14	.998242	1.965448	4.0863	9.154-01
25	3.162-01	1.653+04	3.974-01	46006.7	8.325+03	1.377-09	6.251+14	6.856+14	.998181	1.974257	4.0996	9.625-01
26	4.642-01	1.749+04	5.481-01	48022.3	1.118+04	1.771-09	8.038+14	8.823+14	.998126	1.982259	4.1057	9.977-01
27	6.813-01	1.856+04	7.633-01	50507.4	1.524+04	2.294-09	1.042+15	1.144+15	.998078	1.988644	4.1055	1.020+00
28	1.000+00	1.973+04	1.072+00	53387.7	2.105+04	2.998-09	1.361+15	1.495+15	.998029	1.992944	4.1093	1.043+00
29	1.468+00	2.102+04	1.514+00	57033.5	2.932+04	3.909-09	1.775+15	1.950+15	.997997	1.995847	4.1127	1.073+00
30	2.154+00	2.240+04	2.131+00	61022.9	4.063+04	5.061-09	2.298+15	2.525+15	.997969	1.997465	4.1357	1.160+00
31	3.162+00	2.384+04	2.951+00	65889.5	5.480+04	6.322-09	2.870+15	3.155+15	.997974	1.998485	4.1764	1.300+00
32	4.642+00	2.536+04	4.012+00	71175.6	7.157+04	7.644-09	3.470+15	3.814+15	.997995	1.998992	4.2209	1.490+00
33	6.813+00	2.699+04	5.356+00	77613.0	8.990+04	8.804-09	3.997+15	4.393+15	.998054	1.999298	4.2864	1.743+00
34	1.000+01	2.881+04	7.062+00	84473.4	1.100+05	9.894-09	4.492+15	4.937+15	.998121	1.999474	4.3093	1.993+00
35	1.468+01	3.090+04	9.223+00	92643.0	1.310+05	1.075-08	4.879+15	5.363+15	.998210	1.999570	4.3695	2.336+00
36	2.154+01	3.335+04	1.196+01	101264.6	1.532+05	1.150-08	5.222+15	5.741+15	.998297	1.999626	4.3755	2.683+00
37	3.162+01	3.626+04	1.539+01	111298.8	1.760+05	1.201-08	5.454+15	5.997+15	.998397	1.999710	4.4212	3.187+00
38	4.642+01	3.974+04	1.961+01	122072.5	1.955+05	1.217-08	5.524+15	6.074+15	.998500	1.999791	4.4464	3.814+00
39	6.813+01	4.393+04	2.473+01	134203.7	2.131+05	1.206-08	5.475+15	6.021+15	.998605	1.999853	4.4759	4.631+00
40	1.000+02	4.943+04	3.109+01	148068.4	2.198+05	1.131-08	5.134+15	5.646+15	.998729	1.999908	4.5306	5.604+00

TEFF = 50000

LOG G = 5.0

	TAU(ROSS)	X (KM)	MASS	T	P	RHO	NA	NE	ICN(H)	ION(HE)	LOG G RAD	K(ROSS)
1	0.000+00	0.000+00	8.969-05	31419.9	8.291+00	2.008-12	9.116+11	1.000+12	.999527	1.961886	3.8625	3.530-01
2	4.642-05	1.756+02	1.311-04	32273.9	1.213+01	2.859-12	1.298+12	1.425+12	.999494	1.969115	3.8474	3.560-01
3	6.813-05	3.503+02	1.915-04	32544.3	1.775+01	4.150-12	1.884+12	2.067+12	.999447	1.962683	3.8556	3.606-01
4	1.000-04	5.259+02	2.792-04	32895.4	2.589+01	5.989-12	2.719+12	2.981+12	.999398	1.957181	3.8617	3.664-01
5	1.468-04	7.015+02	4.057-04	33291.3	3.761+01	8.600-12	3.904+12	4.278+12	.999348	1.952189	3.8665	3.734-01
6	2.154-04	8.778+02	5.874-04	33744.4	5.444+01	1.228-11	5.577+12	6.108+12	.999294	1.948353	3.8693	3.821-01
7	3.162-04	1.055+03	8.475-04	34252.1	7.852+01	1.746-11	7.927+12	8.678+12	.999237	1.945770	3.8698	3.926-01
8	4.642-04	1.233+03	1.218-03	34809.0	1.128+02	2.469-11	1.121+13	1.227+13	.999178	1.944348	3.8676	4.053-01
9	6.813-04	1.412+03	1.744-03	35385.1	1.615+02	3.478-11	1.579+13	1.728+13	.999115	1.943157	3.8656	4.208-01
10	1.000-03	1.591+03	2.484-03	35958.3	2.301+02	4.876-11	2.214+13	2.422+13	.999048	1.941562	3.8672	4.398-01
11	1.468-03	1.770+03	3.520-03	36521.8	3.261+02	6.803-11	3.088+13	3.379+13	.998977	1.939397	3.8729	4.628-01
12	2.154-03	1.949+03	4.960-03	37069.6	4.592+02	9.440-11	4.286+13	4.687+13	.998901	1.936513	3.8834	4.905-01
13	3.162-03	2.128+03	6.945-03	37592.7	6.423+02	1.302-10	5.912+13	6.463+13	.998821	1.932641	3.8995	5.241-01
14	4.642-03	2.306+03	9.661-03	38084.8	8.918+02	1.785-10	8.105+13	8.855+13	.998735	1.927546	3.9218	5.646-01
15	6.813-03	2.482+03	1.334-02	38519.8	1.227+03	2.431-10	1.104+14	1.205+14	.998642	1.920326	3.9549	6.151-01
16	1.000-02	2.656+03	1.827-02	38929.5	1.674+03	3.282-10	1.490+14	1.625+14	.998545	1.911771	3.9965	6.762-01
17	1.468-02	2.828+03	2.483-02	39333.7	2.261+03	4.389-10	1.993+14	2.171+14	.998445	1.902705	4.0441	7.487-01
18	2.154-02	2.999+03	3.350-02	39751.6	3.027+03	5.815-10	2.640+14	2.874+14	.998342	1.893999	4.0964	8.336-01
19	3.162-02	3.170+03	4.491-02	40216.5	4.015+03	7.627-10	3.463+14	3.768+14	.998239	1.887212	4.1508	9.318-01
20	4.642-02	3.342+03	5.987-02	40778.7	5.286+03	9.905-10	4.497+14	4.892+14	.998141	1.884770	4.2025	1.042+00
21	6.813-02	3.516+03	7.955-02	41475.6	6.921+03	1.275-09	5.789+14	6.299+14	.998046	1.888075	4.2485	1.161+00
22	1.000-01	3.696+03	1.055-01	42345.2	9.038+03	1.630-09	7.401+14	8.058+14	.997956	1.897459	4.2870	1.286+00
23	1.468-01	3.884+03	1.401-01	43430.2	1.180+04	2.073-09	9.413+14	1.026+15	.997874	1.911690	4.3176	1.415+00
24	2.154-01	4.082+03	1.865-01	44778.4	1.544+04	2.631-09	1.194+15	1.304+15	.997800	1.929467	4.3395	1.537+00
25	3.162-01	4.294+03	2.497-01	46456.0	2.037+04	3.340-09	1.517+15	1.659+15	.997734	1.947713	4.3521	1.640+00
26	4.642-01	4.527+03	3.377-01	48510.2	2.717+04	4.264-09	1.936+15	2.121+15	.997674	1.963882	4.3570	1.717+00
27	6.813-01	4.783+03	4.618-01	50974.3	3.675+04	5.487-09	2.491+15	2.732+15	.997617	1.976427	4.3591	1.777+00
28	1.000+00	5.064+03	6.378-01	53921.8	5.031+04	7.098-09	3.222+15	3.536+15	.997567	1.985467	4.3644	1.845+00
29	1.468+00	5.368+03	8.837-01	57455.7	6.912+04	9.150-09	4.154+15	4.560+15	.997530	1.991138	4.3784	1.967+00
30	2.154+00	5.687+03	1.214+00	61415.1	9.395+04	1.163-08	5.281+15	5.800+15	.997506	1.994589	4.4133	2.200+00
31	3.162+00	6.014+03	1.639+00	66134.8	1.248+05	1.434-08	6.510+15	7.150+15	.997516	1.996676	4.4681	2.540+00
32	4.642+00	6.355+03	2.176+00	71432.5	1.616+05	1.720-08	7.809+15	8.579+15	.997547	1.997799	4.5207	2.970+00
33	6.813+00	6.713+03	2.843+00	77779.6	2.041+05	1.995-08	9.057+15	9.950+15	.997613	1.998430	4.5947	3.548+00
34	1.000+01	7.103+03	3.675+00	84536.8	2.536+05	2.280-08	1.035+16	1.137+16	.997682	1.998796	4.6209	4.107+00
35	1.468+01	7.535+03	4.717+00	92906.7	3.104+05	2.539-08	1.153+16	1.267+16	.997783	1.998996	4.6914	4.870+00
36	2.154+01	8.021+03	6.023+00	101109.3	3.769+05	2.833-08	1.286+16	1.414+16	.997862	1.999077	4.6912	5.652+00
37	3.162+01	8.568+03	7.644+00	111528.2	4.524+05	3.083-08	1.399+16	1.538+16	.997971	1.999265	4.7580	6.785+00
38	4.642+01	9.182+03	9.615+00	121999.3	5.337+05	3.324-08	1.509+16	1.659+16	.998068	1.999430	4.7790	8.229+00
39	6.813+01	9.869+03	1.198+01	134236.3	6.231+05	3.528-08	1.602+16	1.761+16	.998176	1.999574	4.8137	1.010+01
40	1.000+02	1.069+04	1.488+01	148169.1	7.032+05	3.617-08	1.642+16	1.806+16	.998299	1.999704	4.9019	1.230+01

Table 2. Fluxes and flux graphs.

For each of the models given in Table 1, we list the following quantities:

Wavelength  $\lambda(\mu\text{m})$  and inverse wavelength  $1/\lambda$  ( $\mu\text{m}$ ) (we use  $\mu$  as an abbreviation for  $\mu\text{m}$ ),

frequency  $\nu = c/\lambda$  in Hz,

$F_\lambda$  in  $\text{ergs cm}^{-2} \text{ sec}^{-1} \mu\text{m}^{-1}$  and the corresponding magnitude  $M_\lambda = -2.5 \log F_\lambda$ ,

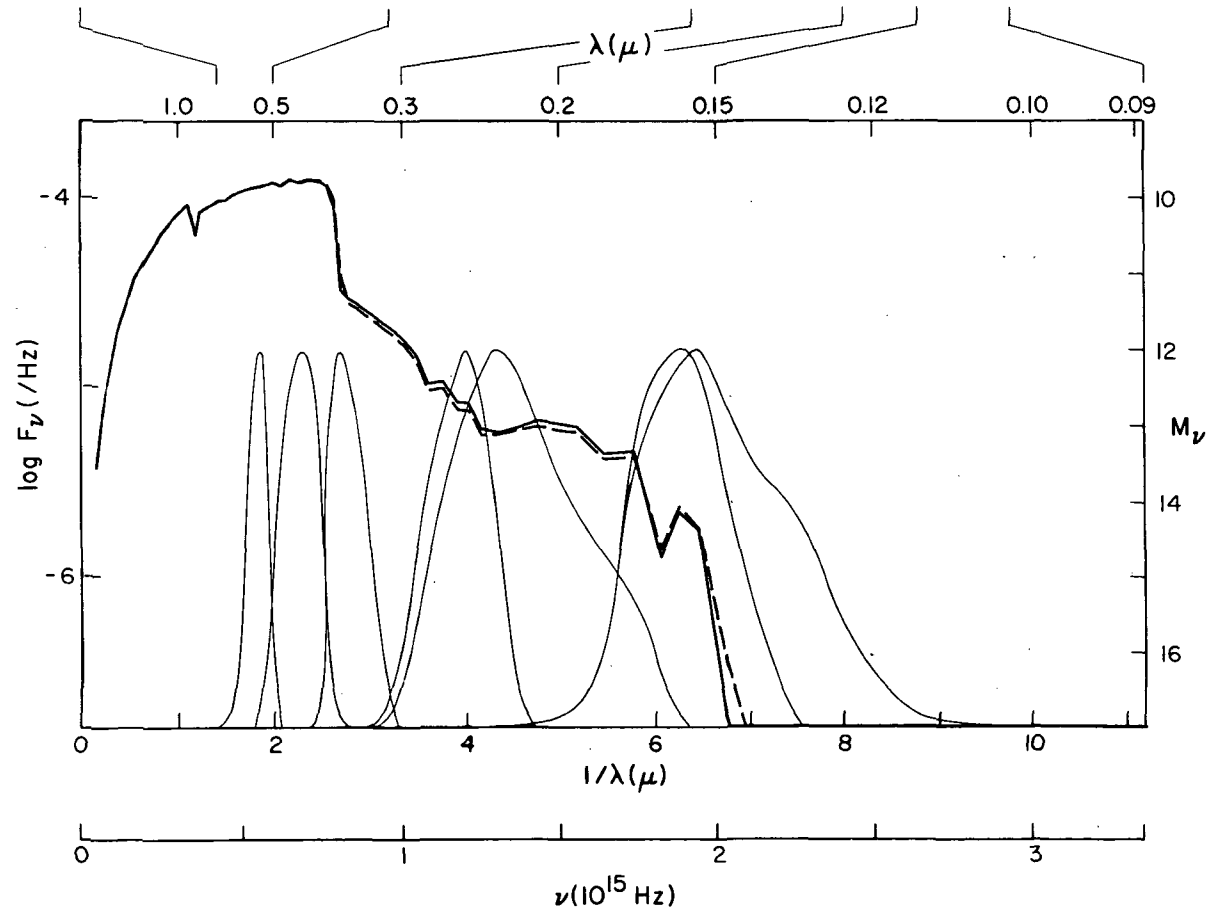
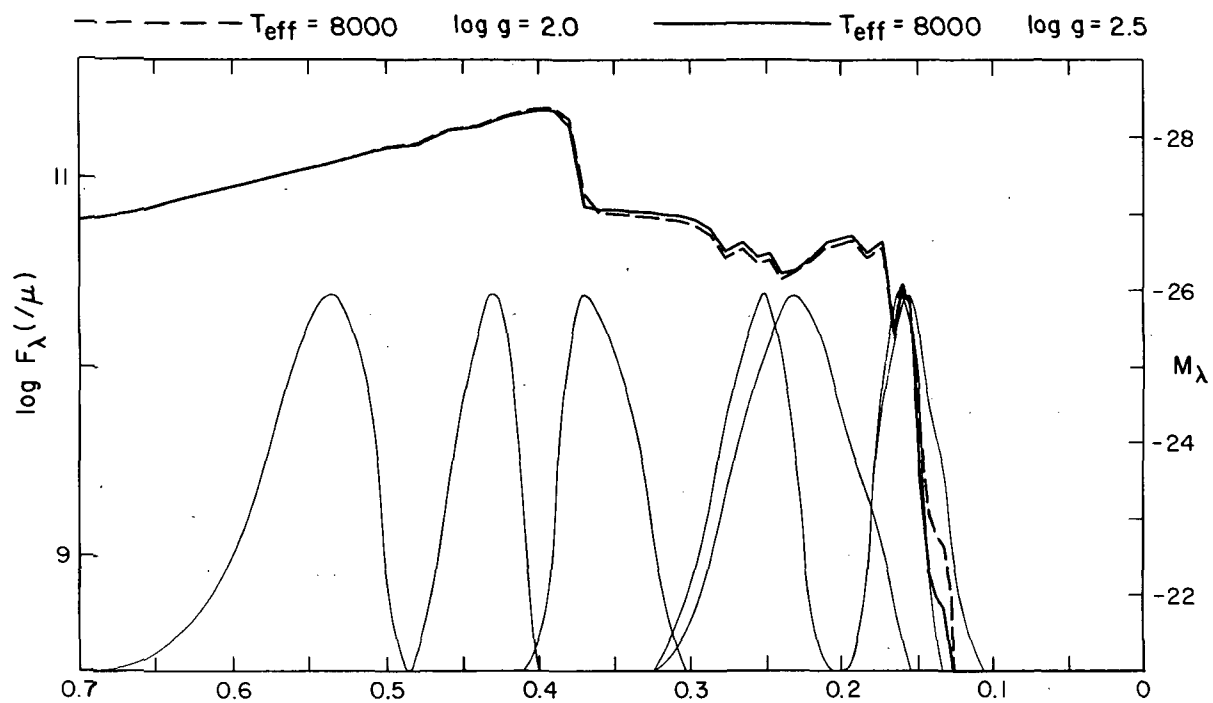
$F_\nu$  in  $\text{ergs cm}^{-2} \text{ sec}^{-1} \text{ Hz}^{-1}$  and the corresponding magnitude  $M_\nu = -2.5 \log F_\nu$ .

Definitions of  $F_\nu$  and  $F_\lambda$  are given in Section 4.3; the two fluxes are related by

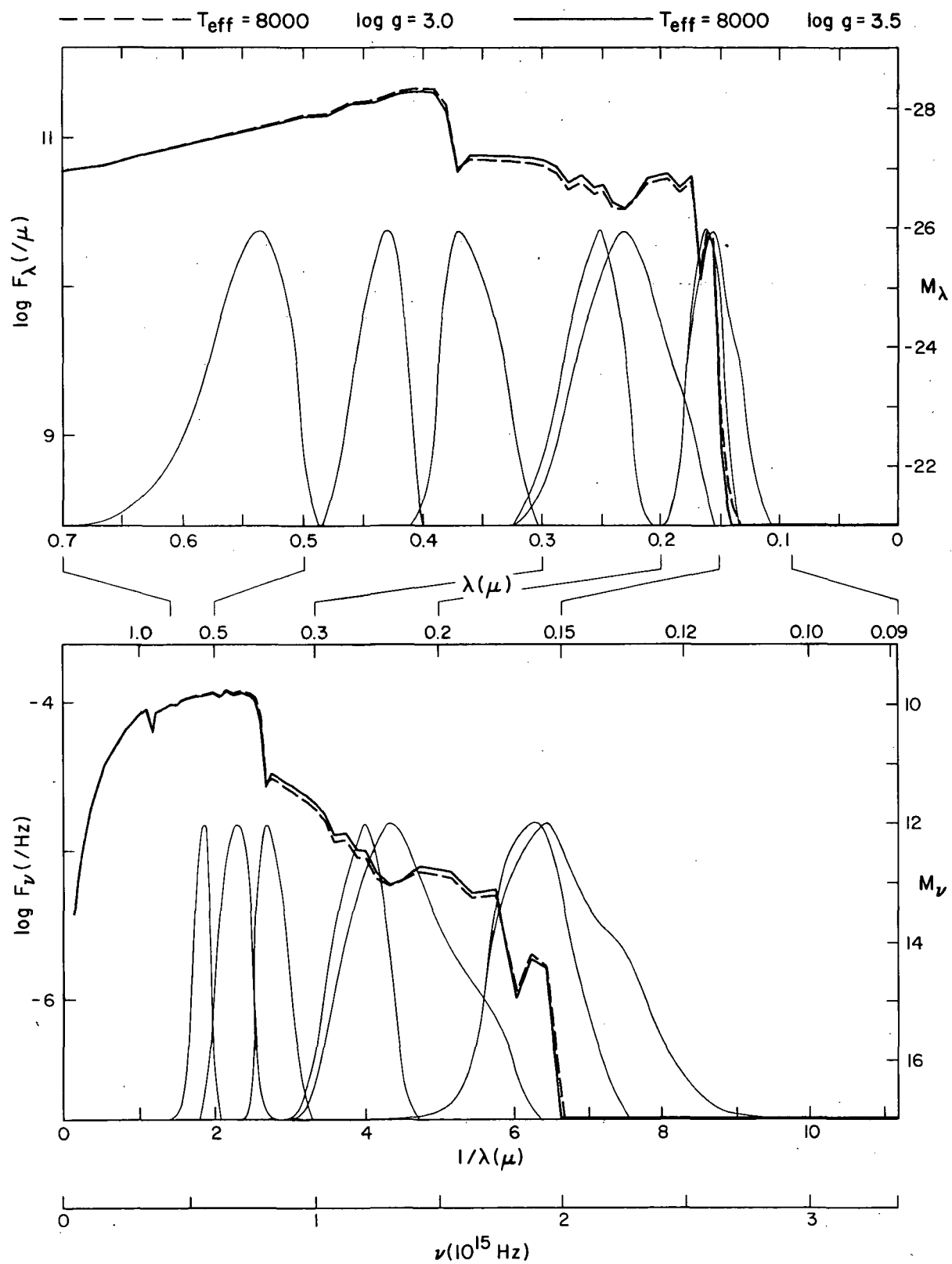
$$F_\nu = \frac{\lambda}{\nu} F_\lambda \quad .$$

There are two models per page, 92 models in all. For  $T_{\text{eff}} \leq 20000$  K, we list 78 wavelengths from  $\lambda = 6.5 \mu\text{m}$  in the infrared to  $\lambda = 0.0515 \mu\text{m}$ , just above the He I ionization limit. For  $T_{\text{eff}} > 20000$  K, the wavelength set extends to  $\lambda = 0.0232 \mu\text{m}$ , just above the He II ionization limit. Here we list only 90 values: 16 added to the 78 shortward of  $0.0515 \mu\text{m}$  and 4 removed between  $0.5$  and  $0.8 \mu\text{m}$ .

The fluxes and magnitudes for each pair of models are presented in graphical form on the opposite page facing each table. We plot  $\log F_\lambda$  and  $M_\lambda$  against  $\lambda$  in the range  $\lambda \leq 0.7 \mu\text{m}$  and  $\log F_\nu$  and  $M_\nu$  against  $1/\lambda$  (and  $\nu$ ) in the range  $1/\lambda \leq 11.2 \mu\text{m}^{-1}$ .



		TEFF = 8000		LOG G = 4.0		TEFF = 8000		LOG G = 2.5		
LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0515	19.4175	5.821+15	3.222-10	23.730	2.850-27	66.363	5.790-10	23.093	5.122-27	65.726
.0540	18.5185	5.552+15	2.725-09	21.412	2.651-26	63.942	4.715-09	20.816	4.586-26	63.346
.0565	17.6991	5.306+15	1.896-08	19.305	2.019-25	61.737	3.161-08	18.750	3.366-25	61.182
.0587	17.0358	5.107+15	9.244-08	17.585	1.062-24	59.934	1.493-07	17.065	1.716-24	59.414
.0612	16.3399	4.899+15	5.029-07	15.746	6.283-24	58.005	7.832-07	15.265	9.785-24	57.524
.0634	15.7729	4.729+15	2.065-06	14.213	2.769-23	56.394	3.119-06	13.765	4.182-23	55.947
.0671	14.9031	4.468+15	1.953-05	11.773	2.933-22	53.832	2.814-05	11.377	4.226-22	53.435
.0705	14.1844	4.252+15	1.356-04	9.669	2.248-21	51.620	1.887-04	9.311	3.128-21	51.262
.0736	13.5870	4.073+15	7.153-04	7.864	1.292-20	49.721	9.702-04	7.533	1.753-20	49.391
.0770	12.9870	3.893+15	3.940-03	6.011	7.792-20	47.771	5.230-03	5.704	1.034-19	47.466
.0810	12.3457	3.701+15	2.506-02	4.003	5.484-19	45.652	3.264-02	3.716	7.143-19	45.365
.0850	11.7647	3.527+15	1.356-01	2.169	3.268-18	43.714	1.740-01	1.899	4.193-18	43.444
.0890	11.2360	3.368+15	6.323-01	.498	1.671-17	41.943	8.008-01	.241	2.116-17	41.686
.0930	10.7527	3.224+15	1.429+02	-5.388	4.123-15	39.962	1.588-02	-5.502	4.581-15	39.848
.0975	10.2564	3.075+15	5.010+02	-6.750	1.589-14	38.497	5.614+02	-6.873	1.780-14	38.374
.1025	9.7561	2.925+15	1.560+03	-7.983	5.467-14	36.156	1.715+03	-8.066	6.010-14	36.053
.1075	9.3023	2.789+15	4.314+03	-9.087	1.663-13	31.948	4.674+03	-9.174	1.802-13	31.861
.1125	8.8889	2.665+15	5.301+05	-14.311	2.238-11	26.625	5.086+05	-14.266	2.147-11	26.670
.1175	8.5106	2.551+15	1.165+06	-15.166	5.365-11	25.676	1.118+06	-15.121	5.149-11	25.721
.1220	8.1967	2.457+15	2.374+06	-15.939	1.179-10	24.822	2.244+06	-15.878	1.114-10	24.883
.1270	7.8740	2.361+15	6.166+08	-21.975	3.317-08	18.698	2.704+08	-21.080	1.455-08	19.593
.1325	7.5472	2.263+15	1.138+09	-22.640	6.664-08	17.941	5.362+08	-21.823	3.140-08	18.758
.1375	7.2727	2.180+15	1.303+09	-22.787	8.217-08	17.713	6.188+08	-21.979	3.902-08	18.522
.1422	7.0323	2.108+15	1.683+09	-23.065	1.135-07	17.362	8.311+08	-22.299	5.606-08	18.128
.1482	6.7476	2.023+15	4.689+09	-24.178	3.435-07	16.160	2.514+09	-23.501	1.842-07	16.837
.1547	6.4641	1.938+15	2.246+10	-25.879	1.793-06	14.366	2.176+10	-25.844	1.737-06	14.400
.1598	6.2578	1.876+15	2.736+10	-26.093	2.330-06	14.081	2.562+10	-26.021	2.182-06	14.153
.1649	6.0643	1.818+15	1.536+10	-25.466	1.393-06	14.640	1.391+10	-25.358	1.262-06	14.748
.1730	5.7803	1.733+15	4.263+10	-26.574	4.256-06	13.428	4.592+10	-26.655	4.584-06	13.347
.1830	5.4645	1.638+15	3.735+10	-26.431	4.172-06	13.449	3.985+10	-26.501	4.452-06	13.379
.1930	5.1813	1.553+15	4.639+10	-26.666	5.764-06	13.098	4.931+10	-26.732	6.127-06	13.032
.2015	4.9628	1.488+15	4.416+10	-26.613	5.981-06	13.058	4.723+10	-26.686	6.397-06	12.985
.2100	4.7619	1.428+15	4.237+10	-26.568	6.233-06	13.013	4.544+10	-26.644	6.684-06	12.937
.2200	4.5455	1.363+15	3.657+10	-26.408	5.904-06	13.072	3.791+10	-26.447	6.120-06	13.033
.2300	4.3478	1.303+15	3.173+10	-26.254	5.599-06	13.130	3.245+10	-26.278	5.726-06	13.105
.2400	4.1667	1.249+15	2.897+10	-26.155	5.566-06	13.136	3.127+10	-26.238	6.008-06	13.053
.2482	4.0290	1.208+15	3.675+10	-26.413	7.552-06	12.805	3.982+10	-26.500	8.182-06	12.718
.2557	3.9108	1.172+15	3.493+10	-26.358	7.618-06	12.795	3.797+10	-26.449	8.281-06	12.705
.2660	3.7594	1.127+15	4.199+10	-26.558	9.910-06	12.510	4.570+10	-26.650	1.079-05	12.418
.2770	3.6101	1.082+15	3.762+10	-26.439	9.628-06	12.541	4.093+10	-26.530	1.048-05	12.450
.2870	3.4843	1.045+15	4.995+10	-26.746	1.372-05	12.156	5.372+10	-26.825	1.476-05	12.077
.2970	3.3670	1.009+15	5.607+10	-26.872	1.650-05	11.956	5.989+10	-26.943	1.762-05	11.885
.3070	3.2573	9.765+14	5.933+10	-26.933	1.865-05	11.823	6.313+10	-27.001	1.985-05	11.756
.3170	3.1546	9.457+14	6.044+10	-26.953	2.026-05	11.733	6.421+10	-27.019	2.152-05	11.668
.3270	3.0581	9.168+14	6.224+10	-26.985	2.220-05	11.634	6.594+10	-27.048	2.352-05	11.571
.3370	2.9674	8.896+14	6.271+10	-26.993	2.376-05	11.561	6.626+10	-27.053	2.510-05	11.501
.3480	2.8736	8.615+14	6.454+10	-27.025	2.607-05	11.460	6.788+10	-27.079	2.742-05	11.405
.3600	2.7778	8.328+14	6.491+10	-27.031	2.806-05	11.380	6.806+10	-27.082	2.942-05	11.328
.3700	2.7027	8.102+14	8.219+10	-27.287	3.753-05	11.064	7.090+10	-27.127	3.238-05	11.224
.3800	2.6316	7.889+14	2.011+11	-28.259	9.686-05	10.035	1.860+11	-28.174	8.959-05	10.119
.3900	2.5641	7.687+14	2.312+11	-28.410	1.173-04	9.827	2.249+11	-28.380	1.141-04	9.857
.4000	2.5000	7.495+14	2.304+11	-28.406	1.230-04	9.776	2.253+11	-28.382	1.202-04	9.800
.4200	2.3810	7.138+14	2.128+11	-28.320	1.252-04	9.756	2.103+11	-28.307	1.237-04	9.769
.4400	2.2727	6.813+14	1.868+11	-28.178	1.206-04	9.796	1.841+11	-28.163	1.189-04	9.812
.4600	2.1739	6.517+14	1.770+11	-28.120	1.249-04	9.758	1.761+11	-28.114	1.243-04	9.764
.4800	2.0833	6.246+14	1.510+11	-27.947	1.160-04	9.838	1.488+11	-27.932	1.144-04	9.854
.5000	2.0000	5.996+14	1.444+11	-27.899	1.204-04	9.798	1.438+11	-27.894	1.199-04	9.803
.5200	1.9231	5.765+14	1.293+11	-27.779	1.166-04	9.833	1.290+11	-27.776	1.164-04	9.836
.5400	1.8519	5.552+14	1.172+11	-27.672	1.140-04	9.858	1.170+11	-27.670	1.138-04	9.860
.5600	1.7857	5.353+14	1.076+11	-27.580	1.126-04	9.872	1.076+11	-27.580	1.126-04	9.872
.5800	1.7241	5.169+14	9.814+10	-27.480	1.101-04	9.895	9.833+10	-27.482	1.103-04	9.893
.6050	1.6529	4.955+14	8.745+10	-27.354	1.068-04	9.929	8.778+10	-27.358	1.072-04	9.925
.6350	1.5748	4.721+14	7.629+10	-27.206	1.026-04	9.972	7.671+10	-27.212	1.032-04	9.966
.6650	1.5038	4.508+14	6.540+10	-27.039	9.647-05	10.039	6.550+10	-27.041	9.662-05	10.037
.6950	1.4388	4.314+14	5.969+10	-26.940	9.617-05	10.042	6.021+10	-26.949	9.701-05	10.033
.7250	1.3793	4.135+14	5.240+10	-26.798	9.187-05	10.092	5.286+10	-26.808	9.268-05	10.083
.7550	1.3245	3.971+14	4.653+10	-26.669	8.847-05	10.133	4.698+10	-26.680	8.933-05	10.123
.7850	1.2739	3.819+14	4.153+10	-26.546	8.537-05	10.172	4.198+10	-26.558	8.629-05	10.160
.8100	1.2346	3.701+14	3.807+10	-26.451	8.332-05	10.198	3.851+10	-26.464	8.428-05	10.186
.8350	1.1976	3.590+14	2.725+10	-26.088	6.338-05	10.495	2.707+10	-26.081	6.296-05	10.502
.9000	1.1111	3.331+14	3.416+10	-26.334	9.230-05	10.087	3.410+10	-26.332	9.213-05	10.089
1.0000	1.0000	2.998+14	2.429+10	-25.964	8.102-05	10.228	2.436+10	-25.967	8.126-05	10.225
1.2000	.8333	2.498+14	1.328+10	-25.308	6.379-05	10.488	1.341+10	-25.319	6.441-05	10.478
1.8000	.5556	1.666+14	3.416+09	-23.834	3.692-05	11.082	3.458+09	-23.847	3.737-05	11.069
2.7000	.3704	1.110+14	7.768+08	-22.226	1.889-05	11.809	7.836+08	-22.235	1.905-05	11.800
4.0000	.2500	7.495+13	1.752+08	-20.609	9.350-06	12.573	1.763+08	-20.616	9.409-06	12.566
5.0000	.2000	5.996+13	7.424+07	-19.677	6.191-06	13.021	7.462+07	-19.682	6.223-06	13.015
6.5000	.1538	4.612+13	2.673+07	-18.567	3.767-06	13.560	2.684+07	-18.572	3.783-06	13.555





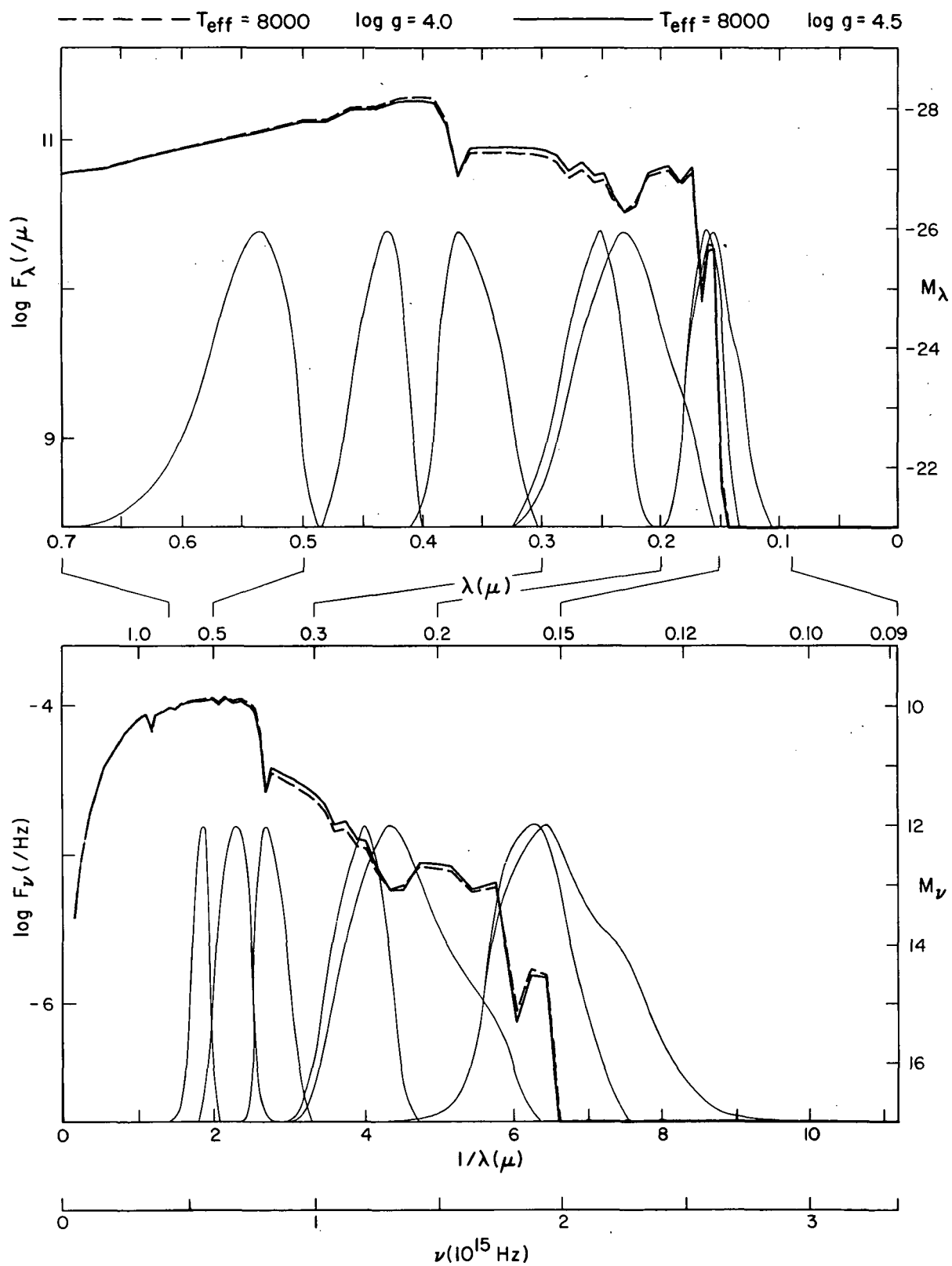
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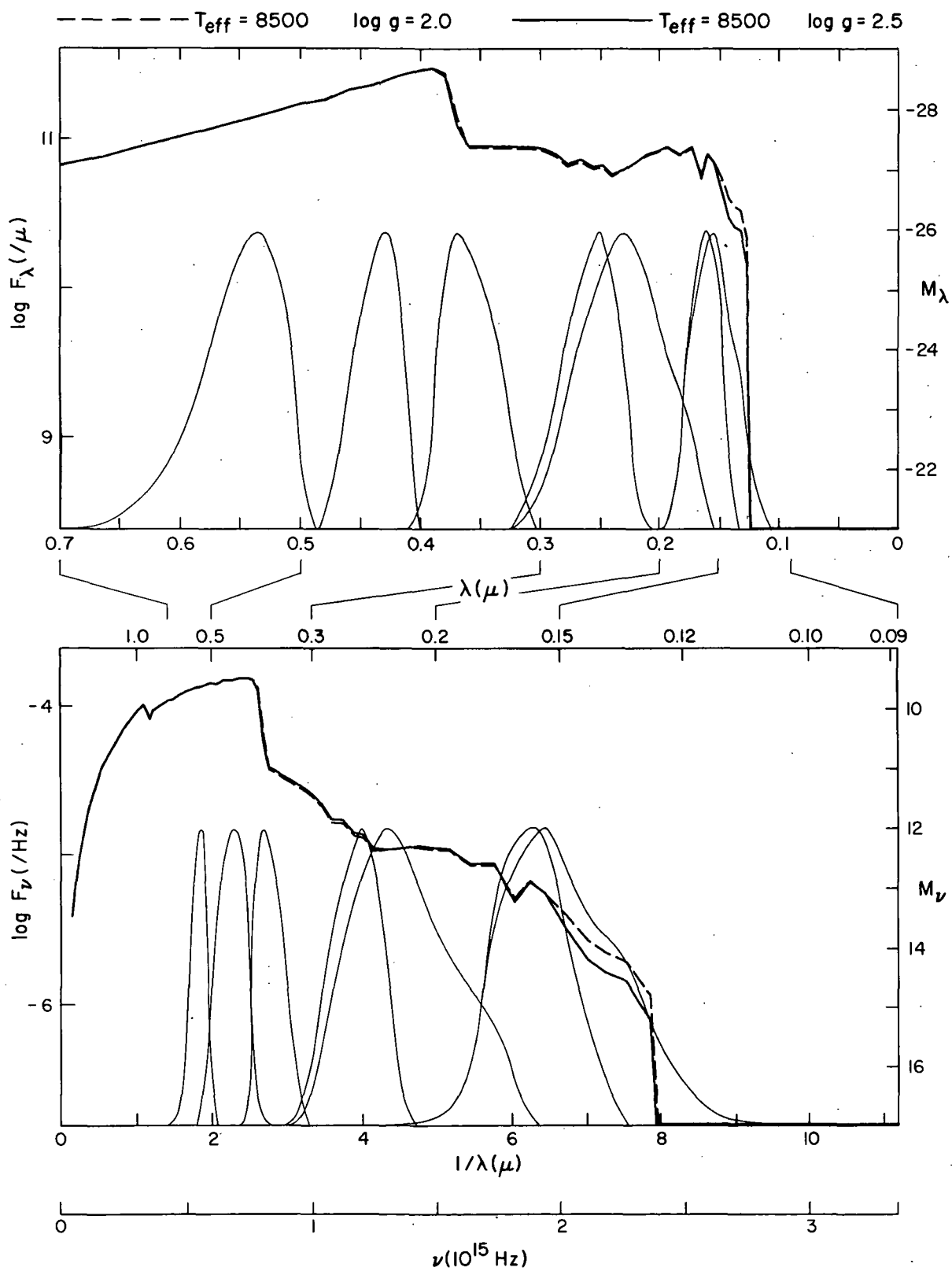
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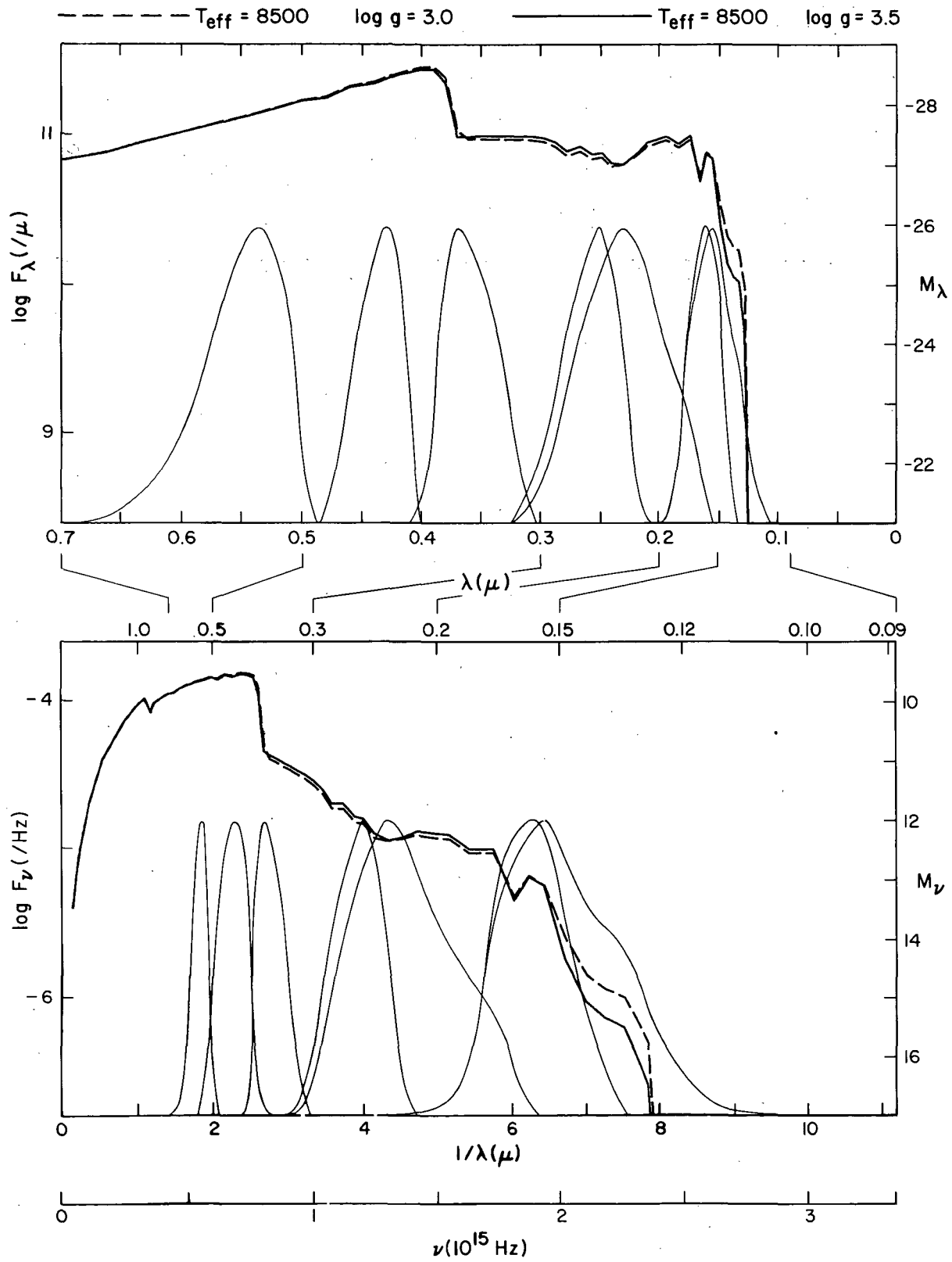
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)
.0515	19.4175	5.821+15	8.773-10	22.642	7.761-27	95.275	1.669-09	21.944	1.477-26	64.577
.0540	18.5185	5.552+15	7.068-09	20.377	6.875-26	92.907	1.327-08	19.693	1.291-25	62.223
.0565	17.6991	5.306+15	4.713-08	18.317	5.018-25	90.749	8.795-08	17.639	9.365-25	60.071
.0587	17.0358	5.107+15	2.225-07	16.632	2.557-24	88.981	4.155-07	15.954	4.776-24	58.302
.0612	16.3399	4.899+15	1.173-06	14.827	1.465-23	87.085	2.204-06	14.142	2.754-23	56.400
.0634	15.7729	4.729+15	4.704-06	13.319	6.307-23	85.500	8.908-06	12.626	1.194-22	54.807
.0671	14.9031	4.468+15	4.300-05	10.916	6.458-22	82.975	8.232-05	10.211	1.236-21	52.270
.0705	14.1844	4.252+15	2.905-04	8.842	4.816-21	80.793	5.570-04	8.135	9.234-21	50.086
.0736	13.5870	4.073+15	1.495-03	7.063	2.701-20	78.921	2.848-03	6.364	5.146-20	48.221
.0770	12.9870	3.893+15	8.017-03	5.240	1.586-19	77.000	1.507-02	4.555	2.980-19	46.314
.0810	12.3457	3.701+15	4.947-02	3.264	1.083-18	74.914	9.102-02	2.602	1.992-18	44.252
.0850	11.7647	3.527+15	2.600-01	1.463	6.266-18	73.008	4.675-01	.826	1.127-17	42.371
.0890	11.2360	3.368+15	1.179-00	-.179	3.115-17	71.266	2.071-00	-.790	5.472-17	40.655
.0930	10.7527	3.224+15	1.823-02	-.5652	5.259-15	69.698	2.525-02	-.6006	7.285-15	39.344
.0975	10.2564	3.075+15	6.532-02	-.7038	2.071-14	68.209	9.172-02	-.7406	2.908-14	37.841
.1025	9.7561	2.925+15	1.979-03	-.8241	6.935-14	66.897	2.747-03	-.8597	9.627-14	36.541
.1075	9.3023	2.769+15	5.365-03	-.9324	2.068-13	65.711	7.383-03	-.9671	2.846-13	35.364
.1125	8.8889	2.665+15	5.198-05	-.14290	2.194-11	64.647	6.296-05	-.14498	2.658-11	34.439
.1175	8.5106	2.551+15	1.139-06	-.15141	5.245-11	63.701	1.365-06	-.15338	6.286-11	33.504
.1220	8.1967	2.457+15	2.249-06	-.15880	1.117-10	62.880	2.629-06	-.16049	1.305-10	32.711
.1270	7.8740	2.361+15	1.257-08	-.20248	6.763-09	60.425	7.846-07	-.19737	4.221-09	30.936
.1325	7.5472	2.263+15	2.677-08	-.21069	1.568-08	59.512	1.667-08	-.20555	9.762-09	29.026
.1375	7.2727	2.180+15	3.250-08	-.21280	2.050-08	58.221	2.167-08	-.20840	1.367-08	27.661
.1422	7.0323	2.108+15	4.620-08	-.22662	3.116-08	56.766	3.225-08	-.21271	2.175-08	26.156
.1482	6.7476	2.023+15	1.339-09	-.22817	9.810-08	55.521	8.138-08	-.22272	5.962-08	24.062
.1547	6.4641	1.938+15	2.106-10	-.25809	1.681-06	54.436	2.038-10	-.25773	1.627-06	22.472
.1598	6.2578	1.876+15	2.389-10	-.25946	2.035-06	53.229	2.207-10	-.25860	1.880-06	21.315
.1649	6.0643	1.818+15	1.261-10	-.25252	1.144-06	52.854	1.124-10	-.25127	1.019-06	20.479
.1730	5.7803	1.733+15	5.041-10	-.26756	5.033-06	51.246	5.539-10	-.26859	5.530-06	19.143
.1830	5.4645	1.638+15	4.332-10	-.26592	4.839-06	50.288	4.682-10	-.26676	5.230-06	18.204
.1930	5.1813	1.553+15	5.347-10	-.26820	6.644-06	48.944	5.809-10	-.26910	7.218-06	17.854
.2015	4.9628	1.488+15	5.146-10	-.26779	6.969-06	47.892	5.594-10	-.26869	7.576-06	17.801
.2100	4.7619	1.428+15	4.957-10	-.26738	7.292-06	46.843	5.366-10	-.26824	7.893-06	17.757
.2200	4.5455	1.363+15	3.954-10	-.26493	6.384-06	45.987	4.007-10	-.26507	6.469-06	17.973
.2300	4.3478	1.303+15	3.319-10	-.26303	5.857-06	45.081	3.359-10	-.26316	5.927-06	17.068
.2400	4.1667	1.245+15	3.416-10	-.26334	6.563-06	44.957	3.735-10	-.26431	7.176-06	17.860
.2482	4.0290	1.208+15	4.386-10	-.26605	9.013-06	44.613	4.874-10	-.26720	1.002-05	17.498
.2557	3.9108	1.172+15	4.196-10	-.26557	9.151-06	44.596	4.682-10	-.26676	1.021-05	17.477
.2660	3.7594	1.127+15	5.052-10	-.26759	1.192-05	44.309	5.650-10	-.26880	1.333-05	17.188
.2770	3.6101	1.082+15	4.517-10	-.26637	1.156-05	44.343	5.035-10	-.26755	1.289-05	17.225
.2870	3.4843	1.045+15	5.857-10	-.26919	1.609-05	41.983	6.466-10	-.27027	1.777-05	17.876
.2970	3.3670	1.009+15	6.480-10	-.27029	1.907-05	41.799	7.097-10	-.27128	2.088-05	17.701
.3070	3.2573	9.765+14	6.801-10	-.27081	2.138-05	41.675	7.414-10	-.27175	2.331-05	17.581
.3170	3.1546	9.457+14	6.901-10	-.27097	2.313-05	41.589	7.502-10	-.27188	2.515-05	17.499
.3270	3.0581	9.168+14	7.061-10	-.27122	2.518-05	41.497	7.647-10	-.27209	2.728-05	17.411
.3370	2.9674	8.896+14	7.072-10	-.27124	2.679-05	41.430	7.630-10	-.27206	2.890-05	17.348
.3480	2.8736	8.615+14	7.206-10	-.27144	2.911-05	41.340	7.730-10	-.27220	3.123-05	17.264
.3600	2.7778	8.328+14	7.200-10	-.27143	3.113-05	41.267	7.692-10	-.27215	3.325-05	17.195
.3700	2.7027	8.102+14	6.272-10	-.26994	2.864-05	41.358	5.927-10	-.26932	2.707-05	17.419
.3800	2.6316	7.889+14	1.690-11	-.28070	8.140-05	40.223	1.532-11	-.27963	7.379-05	10.330
.3900	2.5641	7.687+14	2.152-11	-.28332	1.092-04	9.905	2.039-11	-.28274	1.034-04	9.963
.4000	2.5000	7.495+14	2.168-11	-.28340	1.157-04	9.842	2.071-11	-.28290	1.054-04	9.891
.4200	2.3810	7.138+14	2.051-11	-.28280	1.207-04	9.796	1.987-11	-.28245	1.169-04	9.830
.4400	2.2727	6.813+14	1.795-11	-.28135	1.159-04	9.840	1.742-11	-.28103	1.125-04	9.872
.4600	2.1739	6.517+14	1.736-11	-.28099	1.225-04	9.779	1.701-11	-.28077	1.201-04	9.802
.4800	2.0833	6.246+14	1.455-11	-.27907	1.118-04	9.879	1.418-11	-.27879	1.090-04	9.907
.5000	2.0000	5.996+14	1.421-11	-.27881	1.185-04	9.816	1.397-11	-.27863	1.165-04	9.834
.5200	1.9231	5.765+14	1.278-11	-.27766	1.153-04	9.846	1.261-11	-.27752	1.137-04	9.860
.5400	1.8519	5.552+14	1.162-11	-.27663	1.130-04	9.867	1.151-11	-.27653	1.120-04	9.877
.5600	1.7857	5.353+14	1.071-11	-.27574	1.120-04	9.877	1.062-11	-.27565	1.111-04	9.886
.5800	1.7241	5.169+14	9.805-10	-.27479	1.100-04	9.896	9.749-10	-.27472	1.094-04	9.903
.6050	1.6529	4.955+14	8.773-10	-.27358	1.071-04	9.925	8.746-10	-.27355	1.068-04	9.929
.6350	1.5748	4.721+14	7.684-10	-.27214	1.034-04	9.964	7.679-10	-.27213	1.033-04	9.965
.6650	1.5038	4.508+14	6.541-10	-.27039	9.649-05	10.039	6.523-10	-.27036	9.622-05	10.042
.6950	1.4388	4.314+14	6.056-10	-.26955	9.757-05	10.027	6.079-10	-.26960	9.794-05	10.023
.7250	1.3793	4.135+14	5.320-10	-.26815	9.328-05	10.076	5.347-10	-.26820	9.375-05	10.070
.7550	1.3245	3.971+14	4.734-10	-.26688	9.001-05	10.114	4.766-10	-.26695	9.062-05	10.107
.7850	1.2739	3.819+14	4.238-10	-.26568	8.711-05	10.150	4.274-10	-.26577	8.785-05	10.141
.8100	1.2346	3.701+14	3.892-10	-.26475	8.518-05	10.174	3.929-10	-.26486	8.599-05	10.164
.8350	1.1976	3.590+14	2.723-10	-.26088	6.333-05	10.496	2.791-10	-.26114	6.491-05	10.469
.9000	1.1111	3.331+14	3.386-10	-.26324	9.149-05	10.097	3.353-10	-.26314	9.059-05	10.107
1.0000	1.0000	2.998+14	2.433-10	-.25965	8.116-05	10.227	2.425-10	-.25962	8.089-05	10.230
1.2000	.8333	2.498+14	1.350-10	-.25326	6.484-05	10.470	1.358-10	-.25332	6.523-05	10.464
1.8000	.5556	1.666+14	3.496-09	-.23859	3.778-05	11.057	3.532-09	-.23870	3.817-05	11.046
2.7000	.3704	1.110+14	7.895-08	-.22243	1.920-05	11.792	7.950-08	-.22251	1.933-05	11.784
4.0000	.2500	7.495+13	1.772-08	-.20621	9.457-06	12.561	1.781-08	-.20627	9.505-06	12.555
5.0000	.2000	5.996+13	7.492-07	-.19686	6.248-06	13.011	7.520-07	-.19691	6.271-06	13.007
6.5000	.1538	4.612+13	2.693-07	-.18576	3.795-06	13.552	2.700-07	-.18578	3.805-06	13.549



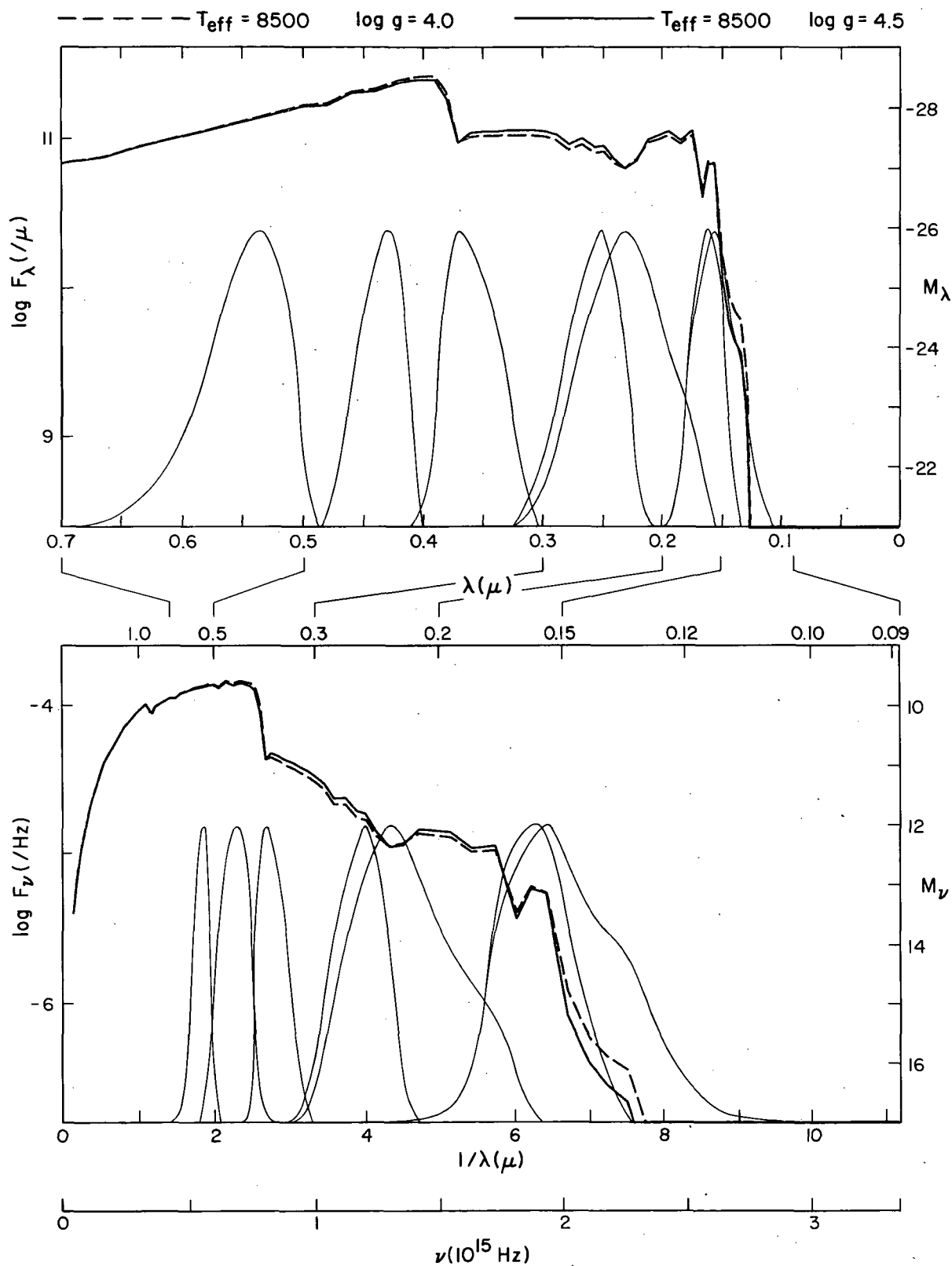
TEFF = 8000						LOG G = 4.0						TEFF = 8000						LOG G = 4.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
LAMBDA (MICRON)	1/LAMBDA	N <sub>L</sub>	F(LAMBDA)	M(LAMBDA)	F(N <sub>L</sub> )	M(N <sub>L</sub> )	F(LAMBDA)	M(LAMBDA)	F(N <sub>L</sub> )	M(N <sub>L</sub> )	F(LAMBDA)	M(LAMBDA)	F(N <sub>L</sub> )	M(N <sub>L</sub> )	F(LAMBDA)	M(LAMBDA)	F(N <sub>L</sub> )	M(N <sub>L</sub> )																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
.0515	19.4175	5.821+15	2.938-09	21.330	2.599-26	63.963	6.385-09	20.487	5.649-26	63.120	.0540	18.5185	5.552+15	2.341-08	19.076	2.277-25	61.607	5.076-08	18.236	4.937-25	60.766	.0565	17.6991	5.306+15	1.569-07	17.011	1.671-24	59.443	3.421-07	16.165	3.643-24	58.596	.0587	17.0358	5.107+15	7.534-07	15.307	8.659-24	57.656	1.657-06	14.452	1.904-23	56.801	.0612	16.3399	4.899+15	4.085-06	13.472	5.104-23	55.730	9.081-06	12.605	1.135-22	54.863	.0634	15.7729	4.729+15	1.684-05	11.934	2.258-22	54.116	3.768-05	11.060	5.052-22	53.241	.0671	14.9031	4.468+15	1.592-04	9.495	2.391-21	51.554	3.564-04	8.620	5.353-21	50.679	.0705	14.1844	4.252+15	1.085-03	7.411	1.799-20	49.363	2.399-03	6.550	3.977-20	48.501	.0736	13.5870	4.073+15	5.518-03	5.646	9.970-20	47.503	1.199-02	4.803	2.166-19	46.661	.0770	12.9870	3.893+15	2.881-02	3.851	5.698-19	45.611	6.110-02	3.035	1.208-18	44.794	.0810	12.3457	3.701+15	1.704-01	1.921	3.729-18	43.571	3.505-01	1.138	7.671-18	42.788	.0850	11.7647	3.527+15	8.546-01	.171	2.060-17	41.716	1.706+00	-.580	4.111-17	40.965	.0890	11.2360	3.368+15	3.697+00	-1.420	9.768-17	40.025	7.166+00	-2.138	1.893-16	39.307	.0930	10.7527	3.224+15	3.513+02	-6.364	1.013-14	34.985	5.683+02	-6.886	1.640-14	34.463	.0975	10.2564	3.075+15	1.296+03	-7.782	4.110-14	33.466	2.134+03	-8.323	6.767-14	32.924	.1025	9.7561	2.925+15	3.855+03	-8.965	1.351-13	32.173	6.277+03	-9.494	2.200-13	31.644	.1075	9.3023	2.789+15	1.031+04	-10.033	3.974-13	31.002	1.665+04	-10.554	6.418-13	30.481	.1125	8.8889	2.665+15	7.866+05	-14.739	3.321-11	26.197	1.114+06	-15.117	4.703-11	25.819	.1175	8.5106	2.551+15	1.686+06	-15.567	7.764-11	25.275	2.346+06	-15.926	1.080-10	24.916	.1220	8.1967	2.457+15	3.155+06	-16.247	1.566-10	24.513	4.227+06	-16.565	2.099-10	24.195	.1270	7.8740	2.361+15	6.198+07	-19.481	3.335-09	21.192	6.064+07	-19.457	3.262-09	21.216	.1325	7.5472	2.263+15	1.253+08	-20.245	7.338-09	20.336	1.152+08	-20.154	6.746-09	20.427	.1375	7.2727	2.180+15	1.727+08	-20.593	1.089-08	19.907	1.632+08	-20.532	1.029-08	19.969	.1422	7.0323	2.108+15	2.646+08	-21.056	1.785-08	19.371	2.522+08	-21.004	1.701-08	19.423	.1482	6.7476	2.023+15	5.622+08	-21.875	4.119-08	18.463	4.678+08	-21.675	3.427-08	18.663	.1547	6.4641	1.938+15	1.961+10	-25.731	1.565-06	14.513	1.871+10	-25.680	1.494-06	14.564	.1598	6.2578	1.876+15	2.016+10	-25.761	1.717-06	14.413	1.814+10	-25.647	1.545-06	14.528	.1649	6.0643	1.818+15	9.839+09	-24.982	8.924-07	15.124	8.258+09	-24.792	7.490-07	15.314	.1730	5.7803	1.733+15	6.079+10	-26.960	6.069-06	13.042	6.583+10	-27.046	6.572-06	12.956	.1830	5.4645	1.638+15	5.025+10	-26.753	5.613-06	13.127	5.248+10	-26.800	5.862-06	13.080	.1930	5.1813	1.553+15	6.296+10	-26.998	7.823-06	12.767	6.738+10	-27.071	8.372-06	12.693	.2015	4.9628	1.488+15	6.050+10	-26.954	8.194-06	12.716	6.451+10	-27.024	8.737-06	12.647	.2100	4.7619	1.428+15	5.744+10	-26.898	8.450-06	12.683	6.031+10	-26.951	8.872-06	12.630	.2200	4.5455	1.363+15	3.890+10	-26.475	6.280-06	13.005	3.623+10	-26.398	5.849-06	13.082	.2300	4.3478	1.303+15	3.323+10	-26.304	5.864-06	13.080	3.283+10	-26.291	5.793-06	13.093	.2400	4.1667	1.249+15	4.044+10	-26.517	7.770-06	12.774	4.363+10	-26.599	8.383-06	12.692	.2482	4.0290	1.208+15	5.427+10	-26.836	1.115-05	12.382	6.036+10	-26.952	1.240-05	12.266	.2557	3.9108	1.172+15	5.234+10	-26.797	1.141-05	12.356	5.843+10	-26.917	1.274-05	12.237	.2660	3.7594	1.127+15	6.346+10	-27.006	1.498-05	12.061	7.142+10	-27.135	1.686-05	11.933	.2770	3.6101	1.082+15	5.614+10	-26.873	1.437-05	12.106	6.256+10	-26.991	1.601-05	11.989	.2870	3.4843	1.045+15	7.178+10	-27.140	1.972-05	11.763	8.005+10	-27.258	2.199-05	11.644	.2970	3.3670	1.009+15	7.818+10	-27.233	2.300-05	11.596	8.655+10	-27.343	2.547-05	11.485	.3070	3.2573	9.765+14	8.127+10	-27.275	2.555-05	11.482	8.953+10	-27.380	2.815-05	11.376	.3170	3.1546	9.457+14	8.198+10	-27.284	2.748-05	11.402	9.004+10	-27.386	3.018-05	11.301	.3270	3.0581	9.168+14	8.325+10	-27.301	2.969-05	11.318	9.111+10	-27.399	3.250-05	11.220	.3370	2.9674	8.896+14	8.272+10	-27.294	3.134-05	11.260	9.016+10	-27.388	3.415-05	11.166	.3480	2.8736	8.615+14	8.332+10	-27.302	3.366-05	11.182	9.027+10	-27.389	3.647-05	11.095	.3600	2.7778	8.328+14	8.256+10	-27.292	3.569-05	11.119	8.904+10	-27.374	3.849-05	11.037	.3700	2.7027	8.102+14	5.736+10	-26.897	2.619-05	11.455	5.812+10	-26.911	2.654-05	11.440	.3800	2.6316	7.889+14	1.377+11	-27.847	6.633-05	10.446	1.274+11	-27.763	6.136-05	10.530	.3900	2.5641	7.687+14	1.915+11	-28.205	9.716-05	10.031	1.797+11	-28.136	9.117-05	10.100	.4000	2.5000	7.495+14	1.964+11	-28.233	1.048-04	9.949	1.862+11	-28.175	9.938-05	10.007	.4200	2.3810	7.138+14	1.914+11	-28.205	1.126-04	9.871	1.839+11	-28.161	1.082-04	9.914	.4400	2.2727	6.813+14	1.681+11	-28.064	1.086-04	9.911	1.621+11	-28.024	1.047-04	9.950	.4600	2.1739	6.517+14	1.658+11	-28.049	1.170-04	9.829	1.612+11	-28.018	1.138-04	9.860	.4800	2.0833	6.246+14	1.376+11	-27.847	1.057-04	9.939	1.335+11	-27.814	1.026-04	9.972	.5000	2.0000	5.996+14	1.369+11	-27.841	1.142-04	9.856	1.338+11	-27.816	1.116-04	9.881	.5200	1.9231	5.765+14	1.240+11	-27.734	1.118-04	9.878	1.217+11	-27.713	1.098-04	9.899	.5400	1.8519	5.552+14	1.135+11	-27.637	1.104-04	9.893	1.117+11	-27.620	1.086-04	9.910	.5600	1.7857	5.353+14	1.050+11	-27.553	1.098-04	9.898	1.036+11	-27.538	1.084-04	9.913	.5800	1.7241	5.169+14	9.661+10	-27.463	1.084-04	9.912	9.556+10	-27.451	1.072-04	9.924	.6050	1.6529	4.955+14	8.691+10	-27.348	1.061-04	9.936	8.620+10	-27.339	1.052-04	9.945	.6350	1.5748	4.721+14	7.650+10	-27.209	1.029-04	9.969	7.607+10	-27.203	1.023-04	9.975	.6650	1.5038	4.508+14	6.488+10	-27.030	9.570-05	10.048	6.448+10	-27.024	9.511-05	10.054	.6950	1.4388	4.314+14	6.084+10	-26.960	9.803-05	10.022	6.078+10	-26.959	9.793-05	10.023	.7250	1.3793	4.135+14	5.361+10	-26.823	9.399-05	10.067	5.366+10	-26.824	9.408-05	10.066	.7550	1.3245	3.971+14	4.786+10	-26.700	9.100-05	10.102	4.799+10	-26.703	9.125-05	10.099	.7850	1.2739	3.819+14	4.300+10	-26.584	8.839-05	10.134	4.321+10	-26.589	8.882-05	10.129	.8100	1.2346	3.701+14	3.958+10	-26.494	8.662-05	10.156	3.982+10	-26.500	8.715-05	10.149	.8350	1.1976	3.590+14	2.896+10	-26.154	6.735-05	10.429	3.022+10	-26.201	7.028-05	10.383	.9000	1.1111	3.331+14	3.312+10	-26.300	8.949-05	10.121	3.270+10	-26.286	8.835-05	10.134	1.0000	1.0000	2.998+14	2.411+10	-25.955	8.042-05	10.237	2.395+10	-25.948	7.989-05	10.244	1.2000	.8333	2.498+14	1.364+10	-25.337	6.552-05	10.459	1.367+10	-25.339	6.566-05	10.457	1.8000	.5556	1.666+14	3.565+09	-23.880	3.853-05	11.036	3.595+09	-23.889	3.885-05	11.026	2.7000	.3704	1.110+14	7.995+08	-22.257	1.944-05	11.778	8.034+08	-22.262	1.944-05	11.773	4.0000	.2500	7.495+13	1.787+08	-20.630	9.537-06	12.551	1.793+08	-20.634	9.569-06	12.548	5.0000	.2000	5.996+13	7.541+07	-19.694	6.289-06	13.004	7.558+07	-19.696	6.303-06	13.001	6.5000	.1538	4.612+13	2.706+07	-18.581	3.814-06	13.547	2.711+07	-18.583	3.821-06	13.545



		TEFF = 8500		LOG G = 2.0		TEFF = 8500		LOG G = 2.5		
LAMBDA (MICRON)	1/LAMBDA	NU	F (LAMBDA)	M (LAMBDA)	F (NU)	M (NU)	F (LAMBDA)	M (LAMBDA)	F (NU)	M (NU)
.6515	14.4175	5.821+15	3.885-08	18.527	3.437-25	91.160	5.455-08	18.158	4.826-25	60.791
.6540	18.5185	5.552+15	3.084-07	16.277	3.000-24	98.807	4.091-07	15.970	3.979-24	58.501
.6565	17.6991	5.306+15	2.084-06	14.203	2.219-23	96.635	2.612-06	13.958	2.781-23	56.389
.6587	17.0358	5.107+15	1.010-05	12.489	1.161-22	94.838	1.207-05	12.296	1.387-22	54.645
.6612	16.3399	4.859+15	5.489-05	10.651	6.858-22	92.910	6.265-05	10.508	7.827-22	52.766
.6634	15.7729	4.729+15	2.240-04	9.124	3.003-21	91.306	2.472-04	9.017	3.314-21	51.199
.6671	14.9031	4.468+15	2.024-03	6.734	3.040-20	98.793	2.143-03	6.672	3.218-20	48.731
.6705	14.1844	4.252+15	1.287-02	4.726	2.134-19	96.677	1.332-02	4.689	2.208-19	46.640
.6736	13.5870	4.073+15	6.076-02	3.041	1.098-18	94.899	6.204-02	3.018	1.121-18	44.876
.6770	12.9870	3.893+15	2.906-01	1.342	5.747-18	93.101	2.941-01	1.329	5.816-18	43.088
.6810	12.3457	3.701+15	1.551+00	-4.477	3.394-17	91.173	1.560+00	-4.483	3.414-17	41.167
.6850	11.7647	3.527+15	7.048+00	-2.120	1.699-16	99.425	7.068+00	-2.123	1.703-16	39.422
.6890	11.2360	3.368+15	2.780+01	-3.610	7.345-16	97.835	2.783+01	-3.611	7.353-16	37.834
.6930	10.7527	3.224+15	1.243+04	-10.236	3.586-13	91.113	6.721+03	-9.569	1.939-13	31.781
.6975	10.2564	3.075+15	4.143+04	-11.543	1.314-12	99.704	2.254+04	-10.882	7.147-13	30.365
.1025	9.7561	2.925+15	1.139+05	-12.641	3.992-12	98.497	6.270+04	-11.993	2.197-12	29.145
.1075	9.3023	2.789+15	2.772+05	-13.607	1.069-11	97.428	1.555+05	-12.979	5.694-12	28.056
.1125	8.8889	2.665+15	1.295+07	-17.781	5.467-10	93.156	9.974+06	-17.497	4.211-10	23.439
.1175	8.5106	2.551+15	2.443+07	-18.470	1.125-09	92.372	1.906+07	-18.200	8.778-10	22.642
.1220	8.1967	2.457+15	4.250+07	-19.071	2.110-09	91.689	3.291+07	-18.793	1.634-09	21.967
.1270	7.8740	2.361+15	2.189+10	-25.851	1.178-06	94.822	1.490+10	-25.433	8.016-07	15.240
.1325	7.5472	2.263+15	3.352+10	-26.313	1.963-06	94.268	2.475+10	-25.984	1.449-06	14.597
.1375	7.2727	2.180+15	3.587+10	-26.387	2.262-06	94.114	2.620+10	-26.046	1.652-06	14.455
.1422	7.0323	2.108+15	4.039+10	-26.516	2.724-06	93.912	2.975+10	-26.184	2.007-06	14.244
.1482	6.7476	2.023+15	5.499+10	-26.851	4.029-06	93.487	4.431+10	-26.616	3.246-06	13.722
.1547	6.4641	1.938+15	7.072+10	-27.124	5.645-06	93.121	7.095+10	-27.127	5.664-06	13.117
.1598	6.2578	1.876+15	8.043+10	-27.264	6.851-06	92.911	7.884+10	-27.242	6.716-06	12.932
.1649	6.0643	1.818+15	5.726+10	-26.895	5.194-06	93.211	5.440+10	-26.839	4.934-06	13.267
.1730	5.7803	1.733+15	8.734+10	-27.353	8.719-06	92.649	8.962+10	-27.381	8.947-06	12.621
.1830	5.4645	1.638+15	7.809+10	-27.231	8.723-06	92.648	7.968+10	-27.253	8.901-06	12.626
.1930	5.1813	1.553+15	8.867+10	-27.369	1.102-05	92.395	8.982+10	-27.383	1.116-05	12.381
.2015	4.9628	1.488+15	8.240+10	-27.290	1.116-05	92.381	8.395+10	-27.310	1.137-05	12.361
.2100	4.7619	1.428+15	7.829+10	-27.234	1.152-05	92.347	7.993+10	-27.257	1.176-05	12.324
.2200	4.5455	1.363+15	7.023+10	-27.116	1.134-05	92.364	7.051+10	-27.121	1.138-05	12.359
.2300	4.3478	1.303+15	6.293+10	-26.997	1.110-05	92.386	6.301+10	-26.999	1.112-05	12.385
.2400	4.1667	1.249+15	5.648+10	-26.880	1.085-05	92.411	5.841+10	-26.916	1.122-05	12.375
.2482	4.0290	1.208+15	6.512+10	-27.034	1.338-05	92.184	6.738+10	-27.071	1.385-05	12.147
.2557	3.9108	1.172+15	6.317+10	-27.001	1.378-05	92.152	6.554+10	-27.041	1.429-05	12.112
.2660	3.7594	1.127+15	7.095+10	-27.127	1.675-05	91.940	7.385+10	-27.171	1.743-05	11.897
.2770	3.6101	1.082+15	6.605+10	-27.050	1.690-05	91.930	6.872+10	-27.093	1.759-05	11.887
.2870	3.4843	1.045+15	7.770+10	-27.226	2.135-05	91.677	8.052+10	-27.265	2.212-05	11.638
.2970	3.3670	1.009+15	8.441+10	-27.316	2.484-05	91.512	8.714+10	-27.351	2.564-05	11.478
.3070	3.2573	9.765+14	8.714+10	-27.351	2.740-05	91.406	8.981+10	-27.383	2.823-05	11.373
.3170	3.1546	9.457+14	8.730+10	-27.353	2.926-05	91.334	9.002+10	-27.386	3.017-05	11.301
.3270	3.0581	9.168+14	8.827+10	-27.365	3.148-05	91.255	9.095+10	-27.397	3.244-05	11.222
.3370	2.9674	8.896+14	8.796+10	-27.361	3.332-05	91.193	9.053+10	-27.392	3.430-05	11.162
.3480	2.8736	8.615+14	8.927+10	-27.377	3.606-05	91.107	9.168+10	-27.406	3.703-05	11.078
.3600	2.7778	8.328+14	8.860+10	-27.369	3.830-05	91.042	9.085+10	-27.396	3.927-05	11.015
.3700	2.7027	8.102+14	1.435+11	-27.892	6.553-05	90.459	1.253+11	-27.745	5.722-05	10.606
.3800	2.6316	7.889+14	2.789+11	-28.614	1.343-04	9.680	2.664+11	-28.564	1.283-04	9.729
.3900	2.5641	7.687+14	3.013+11	-28.697	1.529-04	9.539	2.999+11	-28.692	1.522-04	9.544
.4000	2.5000	7.495+14	2.921+11	-28.664	1.559-04	9.518	2.921+11	-28.664	1.559-04	9.518
.4200	2.3810	7.138+14	2.635+11	-28.552	1.550-04	9.524	2.646+11	-28.556	1.557-04	9.519
.4400	2.2727	6.813+14	2.312+11	-28.410	1.493-04	9.565	2.312+11	-28.410	1.493-04	9.565
.4600	2.1739	6.517+14	2.132+11	-28.322	1.505-04	9.556	2.148+11	-28.330	1.516-04	9.548
.4800	2.0833	6.246+14	1.850+11	-28.168	1.422-04	9.618	1.841+11	-28.163	1.415-04	9.623
.5000	2.0000	5.996+14	1.725+11	-28.092	1.438-04	9.605	1.732+11	-28.096	1.444-04	9.601
.5200	1.9231	5.765+14	1.541+11	-27.974	1.390-04	9.643	1.547+11	-27.974	1.395-04	9.638
.5400	1.8519	5.552+14	1.391+11	-27.858	1.353-04	9.672	1.396+11	-27.862	1.358-04	9.668
.5600	1.7857	5.353+14	1.264+11	-27.754	1.322-04	9.697	1.269+11	-27.759	1.327-04	9.692
.5800	1.7241	5.169+14	1.146+11	-27.648	1.286-04	9.727	1.151+11	-27.653	1.292-04	9.722
.6050	1.6529	4.955+14	1.016+11	-27.517	1.240-04	9.766	1.021+11	-27.523	1.247-04	9.761
.6350	1.5748	4.721+14	8.820+10	-27.364	1.186-04	9.815	8.870+10	-27.370	1.193-04	9.808
.6650	1.5038	4.508+14	7.588+10	-27.200	1.119-04	9.878	7.593+10	-27.201	1.120-04	9.877
.6950	1.4388	4.314+14	6.797+10	-27.081	1.095-04	9.901	6.847+10	-27.089	1.103-04	9.893
.7250	1.3793	4.135+14	5.978+10	-26.941	1.048-04	9.949	6.020+10	-26.949	1.055-04	9.941
.7550	1.3245	3.971+14	5.291+10	-26.809	1.006-04	9.993	5.330+10	-26.817	1.013-04	9.985
.7850	1.2739	3.819+14	4.697+10	-26.680	9.655-05	10.038	4.736+10	-26.689	9.735-05	10.029
.8100	1.2346	3.701+14	4.287+10	-26.580	9.382-05	10.069	4.324+10	-26.590	9.463-05	10.060
.8350	1.1976	3.590+14	3.604+10	-26.392	8.382-05	10.192	3.534+10	-26.371	8.219-05	10.213
.9000	1.1111	3.331+14	3.817+10	-26.454	1.031-04	9.967	3.832+10	-26.459	1.035-04	9.962
1.0000	1.0000	2.998+14	2.886+10	-26.073	8.960-05	10.119	2.702+10	-26.079	9.013-05	10.113
1.2000	.8333	2.498+14	1.445+10	-25.400	6.941-05	10.396	1.457+10	-25.409	6.998-05	10.387
1.8000	.5556	1.666+14	3.635+09	-23.901	3.929-05	11.014	3.670+09	-23.912	3.566-05	11.004
2.7000	.3704	1.110+14	8.215+08	-22.287	1.998-05	11.749	8.278+08	-22.295	2.013-05	11.740
4.0000	.2500	7.495+13	1.848+08	-20.667	9.863-06	12.515	1.859+08	-20.673	9.922-06	12.509
5.0000	.2000	5.996+13	7.828+07	-19.734	6.528-06	12.963	7.869+07	-19.740	6.562-06	12.957
6.5000	.1538	4.612+13	2.819+07	-18.625	3.973-06	13.502	2.831+07	-18.630	3.990-06	13.498



TEFF = 8500				LOG G = 3.0				TEFF = 8500				LOG G = 3.5				
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)		F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)		F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0515	19.4175	5.821+15	9.318-08	17.577	8.244-25	60.210		1.617-07	16.978	1.431-24	59.611		1.617-07	16.978	1.431-24	59.611
.0540	18.5185	5.552+15	6.931-07	15.398	6.742-24	57.928		1.133-06	14.864	1.102-23	57.395		1.133-06	14.864	1.102-23	57.395
.0565	17.6991	5.306+15	4.405-06	13.390	4.691-23	55.822		6.787-06	12.921	7.227-23	55.353		6.787-06	12.921	7.227-23	55.353
.0587	17.0358	5.107+15	2.031-05	11.731	2.334-22	54.080		2.978-05	11.315	3.423-22	53.664		2.978-05	11.315	3.423-22	53.664
.0612	16.3399	4.899+15	1.050-04	9.947	1.312-21	52.205		1.465-04	9.585	1.830-21	51.844		1.465-04	9.585	1.830-21	51.844
.0634	15.7729	4.729+15	4.126-04	8.461	5.532-21	50.643		5.545-04	8.140	7.435-21	50.322		5.545-04	8.140	7.435-21	50.322
.0671	14.9031	4.468+15	3.538-03	6.128	5.314-20	48.187		4.531-03	5.860	6.805-20	47.918		4.531-03	5.860	6.805-20	47.918
.0705	14.1844	4.252+15	2.168-02	4.160	3.594-19	46.111		2.693-02	3.924	4.465-19	45.876		2.693-02	3.924	4.465-19	45.876
.0736	13.5870	4.073+15	9.955-02	2.505	1.799-18	44.363		1.212-01	2.291	2.190-18	44.149		1.212-01	2.291	2.190-18	44.149
.0770	12.9870	3.893+15	4.641-01	.833	9.179-18	42.593		5.565-01	.636	1.101-17	42.396		5.565-01	.636	1.101-17	42.396
.0810	12.3457	3.701+15	2.414+00	-.957	5.283-17	40.693		2.855+00	-1.139	6.248-17	40.511		2.855+00	-1.139	6.248-17	40.511
.0850	11.7647	3.527+15	1.073+01	-2.576	2.586-16	38.968		1.256+01	-2.747	3.027-16	38.797		1.256+01	-2.747	3.027-16	38.797
.0890	11.2360	3.368+15	4.151+01	-4.045	1.097-15	37.400		4.819+01	-4.207	1.273-15	37.238		4.819+01	-4.207	1.273-15	37.238
.0930	10.7527	3.224+15	7.380+03	-9.670	2.129-13	31.679		6.342+03	-9.506	1.830-13	31.844		6.342+03	-9.506	1.830-13	31.844
.0975	10.2564	3.075+15	2.498+04	-10.994	7.921-13	30.253		2.177+04	-10.845	6.903-13	30.402		2.177+04	-10.845	6.903-13	30.402
.1025	9.7561	2.925+15	6.902+04	-12.097	2.419-12	29.041		5.941+04	-11.935	2.082-12	29.204		5.941+04	-11.935	2.082-12	29.204
.1075	9.3023	2.789+15	1.708+05	-13.081	6.584-12	27.954		1.459+05	-12.910	5.624-12	28.125		1.459+05	-12.910	5.624-12	28.125
.1125	8.8889	2.665+15	9.599+06	-17.456	4.052-10	23.481		8.736+06	-17.353	3.688-10	23.583		8.736+06	-17.353	3.688-10	23.583
.1175	8.5106	2.551+15	1.843+07	-18.164	8.488-10	22.678		1.684+07	-18.066	7.755-10	22.776		1.684+07	-18.066	7.755-10	22.776
.1220	8.1967	2.457+15	3.131+07	-18.739	1.554+09	22.021		2.814+07	-18.623	1.397+09	22.137		2.814+07	-18.623	1.397+09	22.137
.1270	7.8740	2.361+15	9.079+09	-24.895	4.885-07	15.778		4.748+09	-24.191	2.554-07	16.482		4.748+09	-24.191	2.554-07	16.482
.1325	7.5472	2.263+15	1.715+10	-25.586	1.004-06	14.995		1.058+10	-25.061	6.196-07	15.520		1.058+10	-25.061	6.196-07	15.520
.1375	7.2727	2.180+15	1.825+10	-25.653	1.151-06	14.847		1.149+10	-25.151	7.246-07	15.350		1.149+10	-25.151	7.246-07	15.350
.1422	7.0323	2.108+15	2.113+10	-25.812	1.425-06	14.615		1.375+10	-25.346	9.274-07	15.082		1.375+10	-25.346	9.274-07	15.082
.1482	6.7476	2.023+15	3.448+10	-26.344	2.526-06	13.994		2.449+10	-25.972	1.794-06	14.365		2.449+10	-25.972	1.794-06	14.365
.1547	6.4641	1.938+15	7.172+10	-27.139	5.725-06	13.105		7.109+10	-27.130	5.675-06	13.115		7.109+10	-27.130	5.675-06	13.115
.1598	6.2578	1.876+15	7.814+10	-27.232	6.656-06	12.942		7.586+10	-27.200	6.462-06	12.974		7.586+10	-27.200	6.462-06	12.974
.1649	6.0643	1.818+15	5.253+10	-26.801	4.765-06	13.305		4.939+10	-26.734	4.480-06	13.372		4.939+10	-26.734	4.480-06	13.372
.1730	5.7803	1.733+15	9.483+10	-27.442	9.467-06	12.559		1.008+11	-27.509	1.006-05	12.493		1.008+11	-27.509	1.006-05	12.493
.1830	5.4645	1.638+15	8.407+10	-27.312	9.391-06	12.568		8.891+10	-27.372	9.932-06	12.507		8.891+10	-27.372	9.932-06	12.507
.1930	5.1813	1.553+15	9.444+10	-27.438	1.173-05	12.326		1.001+11	-27.501	1.244-05	12.263		1.001+11	-27.501	1.244-05	12.263
.2015	4.9628	1.488+15	8.864+10	-27.369	1.200-05	12.302		9.426+10	-27.436	1.277-05	12.235		9.426+10	-27.436	1.277-05	12.235
.2100	4.7619	1.428+15	8.447+10	-27.317	1.243-05	12.264		8.979+10	-27.383	1.321-05	12.198		8.979+10	-27.383	1.321-05	12.198
.2200	4.5455	1.363+15	7.251+10	-27.151	1.171-05	12.329		7.419+10	-27.176	1.198-05	12.304		7.419+10	-27.176	1.198-05	12.304
.2300	4.3478	1.303+15	6.405+10	-27.016	1.130-05	12.367		6.460+10	-27.026	1.140-05	12.358		6.460+10	-27.026	1.140-05	12.358
.2400	4.1667	1.249+15	6.198+10	-26.981	1.191-05	12.310		6.590+10	-27.047	1.266-05	12.244		6.590+10	-27.047	1.266-05	12.244
.2482	4.0290	1.208+15	7.185+10	-27.141	1.476-05	12.077		7.718+10	-27.219	1.586-05	11.999		7.718+10	-27.219	1.586-05	11.999
.2557	3.9108	1.172+15	7.004+10	-27.113	1.528-05	12.040		7.531+10	-27.192	1.642-05	11.961		7.531+10	-27.192	1.642-05	11.961
.2660	3.7594	1.127+15	7.901+10	-27.244	1.865-05	11.823		8.519+10	-27.326	2.011-05	11.742		8.519+10	-27.326	2.011-05	11.742
.2770	3.6101	1.082+15	7.345+10	-27.165	1.880-05	11.815		7.888+10	-27.242	2.019-05	11.737		7.888+10	-27.242	2.019-05	11.737
.2870	3.4843	1.045+15	8.546+10	-27.329	2.348-05	11.573		9.140+10	-27.402	2.511-05	11.500		9.140+10	-27.402	2.511-05	11.500
.2970	3.3670	1.009+15	9.195+10	-27.409	2.705-05	11.419		9.775+10	-27.475	2.876-05	11.353		9.775+10	-27.475	2.876-05	11.353
.3070	3.2573	9.765+14	9.449+10	-27.438	2.971-05	11.318		1.001+11	-27.501	3.147-05	11.255		1.001+11	-27.501	3.147-05	11.255
.3170	3.1546	9.457+14	9.462+10	-27.440	3.172-05	11.247		1.001+11	-27.501	3.355-05	11.186		1.001+11	-27.501	3.355-05	11.186
.3270	3.0581	9.168+14	9.541+10	-27.449	3.403-05	11.170		1.007+11	-27.508	3.592-05	11.112		1.007+11	-27.508	3.592-05	11.112
.3370	2.9674	8.896+14	9.478+10	-27.442	3.591-05	11.112		9.976+10	-27.497	3.779-05	11.057		9.976+10	-27.497	3.779-05	11.057
.3480	2.8736	8.615+14	9.566+10	-27.452	3.864-05	11.032		1.003+11	-27.503	4.052-05	10.981		1.003+11	-27.503	4.052-05	10.981
.3600	2.7778	8.328+14	9.457+10	-27.439	4.088-05	10.971		9.889+10	-27.488	4.275-05	10.923		9.889+10	-27.488	4.275-05	10.923
.3700	2.7027	8.102+14	1.101+11	-27.604	5.028-05	10.747		9.947+10	-27.494	4.542-05	10.857		9.947+10	-27.494	4.542-05	10.857
.3800	2.6316	7.889+14	2.480+11	-28.486	1.195-04	9.807		2.270+11	-28.390	1.093-04	9.903		2.270+11	-28.390	1.093-04	9.903
.3900	2.5641	7.687+14	2.935+11	-28.669	1.489-04	9.568		2.816+11	-28.624	1.429-04	9.613		2.816+11	-28.624	1.429-04	9.613
.4000	2.5000	7.495+14	2.874+11	-28.646	1.534-04	9.536		2.778+11	-28.609	1.483-04	9.572		2.778+11	-28.609	1.483-04	9.572
.4200	2.3810	7.138+14	2.630+11	-28.550	1.548-04	9.526		2.577+11	-28.528	1.516-04	9.548		2.577+11	-28.528	1.516-04	9.548
.4400	2.2727	6.813+14	2.293+11	-28.401	1.481-04	9.574		2.245+11	-28.378	1.450-04	9.597		2.245+11	-28.378	1.450-04	9.597
.4600	2.1739	6.517+14	2.149+11	-28.331	1.517-04	9.548		2.127+11	-28.319	1.501-04	9.559		2.127+11	-28.319	1.501-04	9.559
.4800	2.0833	6.246+14	1.824+11	-28.153	1.402-04	9.633		1.790+11	-28.132	1.376-04	9.654		1.790+11	-28.132	1.376-04	9.654
.5000	2.0000	5.996+14	1.733+11	-28.097	1.445-04	9.600		1.720+11	-28.089	1.434-04	9.608		1.720+11	-28.089	1.434-04	9.608
.5200	1.9231	5.765+14	1.550+11	-27.976	1.398-04	9.636		1.541+11	-27.970	1.390-04	9.643		1.541+11	-27.970	1.390-04	9.643
.5400	1.8519	5.552+14	1.400+11	-27.865	1.362-04	9.665		1.394+11	-27.861	1.356-04	9.669		1.394+11	-27.861	1.356-04	9.669
.5600	1.7857	5.353+14	1.274+11	-27.763	1.333-04	9.688		1.271+11	-27.760	1.330-04	9.691		1.271+11	-27.760	1.330-04	9.691
.5800	1.7241	5.169+14	1.156+11	-27.657	1.297-04	9.718		1.156+11	-27.657	1.297-04	9.718		1.156+11	-27.657	1.297-04	9.718
.6050	1.6529	4.955+14	1.027+11	-27.529	1.254-04	9.754		1.028+11	-27.530	1.255-04	9.753		1.028+11	-27.530	1.255-04	9.753
.6350	1.5748	4.721+14	8.932+10	-27.377	1.201-04	9.801		8.960+10	-27.381	1.205-04	9.797		8.960+10	-27.381	1.205-04	9.797
.6650	1.5038	4.508+14	7.614+10	-27.204	1.123-04	9.874		7.609+10	-27.203	1.122-04	9					





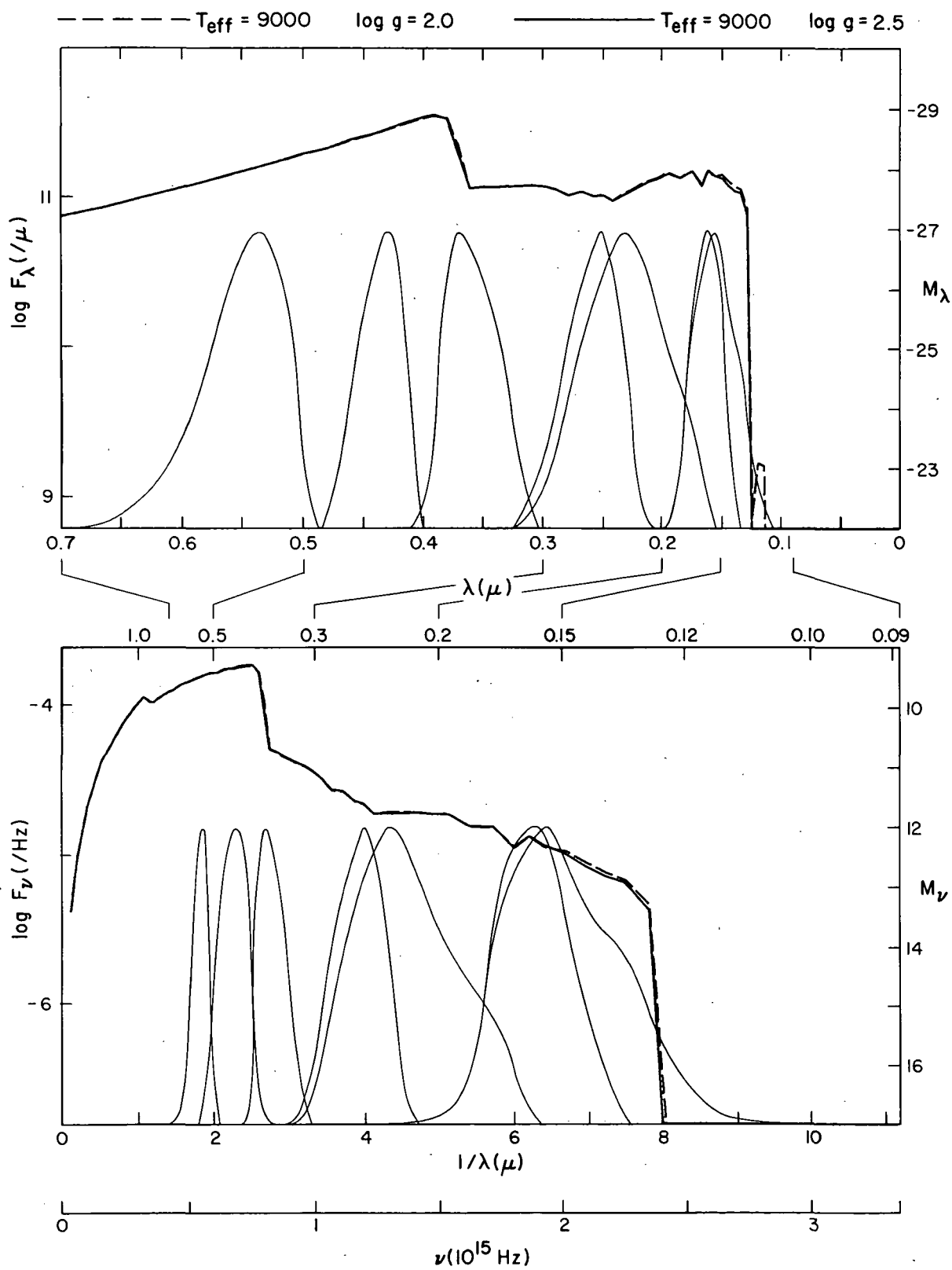
TEFF = 8500

LOG G = 4.0

TEFF = 8500

LOG G = 4.5

LAMBDA (MICRON)	LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0515	14.4175	5.821+15	2.297-07	16.597	2.032-24	29.230	4.412-07	15.888	3.903-24	58.521
.0540	10.5185	5.552+15	1.607-06	14.485	1.563-23	27.015	3.003-06	13.806	2.921-23	56.336
.0565	17.6991	5.306+15	9.642-06	12.540	1.027-22	24.971	1.757-05	11.888	1.871-22	54.320
.0587	17.0358	5.107+15	4.244-05	10.931	4.878-22	23.279	7.577-05	10.301	8.709-22	52.650
.0612	16.3399	4.899+15	2.094-04	9.198	2.616-21	21.456	3.658-04	8.592	4.570-21	50.850
.0634	15.7729	4.725+15	7.936-04	7.751	1.064-20	49.933	1.362-03	7.165	1.826-20	49.346
.0671	14.9031	4.468+15	6.472-03	5.472	9.720-20	47.531	1.080-02	4.916	1.622-19	46.975
.0705	14.1844	4.252+15	3.822-02	3.544	6.336-19	45.495	6.226-02	3.014	1.032-18	44.966
.0736	13.5870	4.073+15	1.706-01	1.920	3.083-18	43.778	2.724-01	1.412	4.922-18	43.270
.0770	12.9870	3.893+15	7.746-01	.277	1.532-17	42.037	1.212-00	-.209	2.397-17	41.551
.0810	11.3457	3.701+15	3.922+00	-1.484	8.583-17	40.166	6.003+00	-1.946	1.314-16	39.704
.0850	11.7647	3.527+15	1.703+01	-3.078	4.104-16	38.467	2.555+01	-3.518	6.158-16	38.026
.0890	11.2360	3.368+15	6.449+01	-4.524	1.704-15	36.921	9.502+01	-4.945	2.511-15	36.501
.0930	10.7527	3.224+15	6.784+03	-9.579	1.957-13	31.771	8.544+03	-9.829	2.465-13	31.520
.0975	10.2564	3.075+15	2.378+04	-10.941	7.541-13	30.306	3.071+04	-11.218	9.738-13	30.029
.1025	9.7561	2.923+15	6.458+04	-12.025	2.263-12	29.113	8.216+04	-12.287	2.759-12	28.852
.1075	9.3023	2.789+15	1.584+05	-12.999	6.106-12	28.036	1.995+05	-13.250	7.690-12	27.785
.1125	8.8889	2.665+15	8.781+06	-17.359	3.707-10	23.577	1.003+07	-17.503	4.234-10	23.433
.1175	8.5106	2.551+15	1.691+07	-18.070	7.788-10	22.772	1.920+07	-18.208	8.842-10	22.634
.1220	8.1967	2.457+15	2.761+07	-18.603	1.371-09	22.158	3.028+07	-18.703	1.503-09	22.057
.1270	7.8740	2.361+15	2.300+09	-23.404	1.237-07	17.269	1.158+09	-22.659	6.230-08	18.014
.1325	7.5472	2.263+15	6.238+09	-24.488	3.653-07	16.093	3.738+09	-23.932	2.189-07	16.649
.1375	7.2727	2.180+15	7.084+09	-24.626	4.467-07	15.875	4.524+09	-24.139	2.853-07	16.362
.1422	7.0323	2.108+15	8.875+09	-24.870	5.986-07	15.557	6.001+09	-24.446	4.048-07	15.982
.1482	6.7476	2.023+15	1.669+10	-25.556	1.223-06	14.782	1.141+10	-25.143	8.359-07	15.195
.1547	6.4641	1.938+15	6.995+10	-27.112	5.584-06	13.133	6.895+10	-27.096	5.504-06	13.148
.1598	6.2578	1.876+15	7.258+10	-27.152	6.182-06	13.022	6.918+10	-27.100	5.893-06	13.074
.1649	6.0643	1.818+15	4.525+10	-26.639	4.104-06	13.467	4.104+10	-26.533	3.722-06	13.573
.1730	5.7803	1.733+15	1.077+11	-27.581	1.075-05	12.421	1.158+11	-27.659	1.156-05	12.343
.1830	5.4645	1.638+15	9.397+10	-27.432	1.050-05	12.447	9.942+10	-27.494	1.111-05	12.386
.1930	5.1813	1.553+15	1.066+11	-27.569	1.324-05	12.195	1.140+11	-27.642	1.416-05	12.122
.2015	4.9628	1.488+15	1.005+11	-27.505	1.361-05	12.165	1.073+11	-27.576	1.453-05	12.094
.2100	4.7619	1.442+15	9.522+10	-27.447	1.401-05	12.134	1.008+11	-27.509	1.483-05	12.072
.2200	4.5455	1.363+15	7.425+10	-27.177	1.199-05	12.303	7.261+10	-27.152	1.172-05	12.327
.2300	4.3478	1.303+15	6.460+10	-27.026	1.140-05	12.358	6.422+10	-27.019	1.133-05	12.364
.2400	4.1667	1.249+15	7.028+10	-27.117	1.350-05	12.174	7.527+10	-27.192	1.446-05	12.099
.2482	4.0290	1.208+15	8.374+10	-27.307	1.721-05	11.911	9.163+10	-27.405	1.883-05	11.813
.2557	3.9108	1.172+15	8.177+10	-27.281	1.783-05	11.872	8.957+10	-27.380	1.953-05	11.773
.2660	3.7594	1.127+15	9.287+10	-27.420	2.192-05	11.648	1.022+11	-27.524	2.412-05	11.544
.2770	3.6101	1.082+15	8.544+10	-27.329	2.187-05	11.650	9.332+10	-27.425	2.388-05	11.555
.2870	3.4843	1.045+15	9.893+10	-27.488	2.718-05	11.414	1.082+11	-27.586	2.973-05	11.317
.2970	3.3670	1.009+15	1.051+11	-27.554	3.092-05	11.274	1.142+11	-27.644	3.360-05	11.184
.3070	3.2573	9.765+14	1.073+11	-27.576	3.373-05	11.180	1.162+11	-27.663	3.653-05	11.093
.3170	3.1546	9.457+14	1.071+11	-27.574	3.590-05	11.112	1.156+11	-27.657	3.875-05	11.029
.3270	3.0581	9.168+14	1.074+11	-27.578	3.831-05	11.042	1.156+11	-27.657	4.123-05	10.962
.3370	2.9674	8.896+14	1.061+11	-27.564	4.019-05	10.990	1.138+11	-27.640	4.311-05	10.914
.3480	2.8736	8.615+14	1.062+11	-27.565	4.290-05	10.919	1.134+11	-27.637	4.581-05	10.848
.3600	2.7778	8.328+14	1.044+11	-27.547	4.513-05	10.864	1.110+11	-27.613	4.799-05	10.797
.3700	2.7027	8.102+14	9.574+10	-27.453	4.372-05	10.898	9.532+10	-27.448	4.353-05	10.903
.3800	2.6316	7.889+14	2.058+11	-28.284	9.913-05	10.010	1.862+11	-28.175	8.969-05	10.118
.3900	2.5641	7.687+14	2.670+11	-28.566	1.355-04	9.670	2.511+11	-28.500	1.274-04	9.737
.4000	2.5000	7.495+14	2.658+11	-28.561	1.419-04	9.620	2.526+11	-28.506	1.348-04	9.676
.4200	2.3810	7.138+14	2.505+11	-28.497	1.474-04	9.579	2.421+11	-28.460	1.425-04	9.616
.4400	2.2727	6.813+14	2.183+11	-28.348	1.410-04	9.627	2.113+11	-28.312	1.365-04	9.663
.4600	2.1739	6.517+14	2.092+11	-28.301	1.477-04	9.577	2.047+11	-28.278	1.445-04	9.600
.4800	2.0833	6.246+14	1.748+11	-28.106	1.343-04	9.679	1.700+11	-28.076	1.307-04	9.710
.5000	2.0000	5.996+14	1.697+11	-28.074	1.415-04	9.623	1.668+11	-28.055	1.391-04	9.642
.5200	1.9231	5.765+14	1.525+11	-27.958	1.375-04	9.654	1.504+11	-27.943	1.357-04	9.669
.5400	1.8519	5.552+14	1.383+11	-27.852	1.345-04	9.678	1.368+11	-27.840	1.331-04	9.690
.5600	1.7857	5.353+14	1.264+11	-27.754	1.322-04	9.697	1.253+11	-27.745	1.311-04	9.706
.5800	1.7241	5.169+14	1.152+11	-27.654	1.293-04	9.721	1.145+11	-27.647	1.285-04	9.728
.6050	1.6529	4.955+14	1.027+11	-27.529	1.254-04	9.754	1.023+11	-27.525	1.249-04	9.759
.6350	1.5748	4.721+14	8.968+10	-27.382	1.206-04	9.796	8.956+10	-27.380	1.205-04	9.798
.6650	1.5038	4.508+14	7.594+10	-27.201	1.120-04	9.877	7.566+10	-27.197	1.116-04	9.881
.6950	1.4388	4.314+14	6.989+10	-27.111	1.126-04	9.871	7.011+10	-27.114	1.130-04	9.868
.7250	1.3793	4.135+14	6.153+10	-26.973	1.079-04	9.918	6.181+10	-26.978	1.084-04	9.913
.7550	1.3245	3.971+14	5.465+10	-26.844	1.039-04	9.958	5.498+10	-26.851	1.045-04	9.952
.7850	1.2739	3.815+14	4.874+10	-26.720	1.002-04	9.998	4.913+10	-26.728	1.010-04	9.989
.8100	1.2346	3.701+14	4.459+10	-26.623	9.759-05	10.027	4.499+10	-26.633	9.846-05	10.017
.8350	1.1976	3.590+14	3.685+10	-26.416	8.570-05	10.168	3.802+10	-26.450	8.842-05	10.134
.9000	1.1111	3.331+14	3.793+10	-26.447	1.025-04	9.973	3.757+10	-26.437	1.015-04	9.984
1.0000	1.0000	2.998+14	2.710+10	-26.082	9.040-05	10.110	2.701+10	-26.079	9.010-05	10.113
1.2000	.8333	2.498+14	1.489+10	-25.432	7.152-05	10.364	1.497+10	-25.438	7.191-05	10.358
1.8000	.5556	1.666+14	3.776+09	-23.943	4.081-05	10.973	3.811+09	-23.953	4.119-05	10.963
2.7000	.3704	1.110+14	8.453+08	-22.318	2.056-05	11.718	8.505+08	-22.324	2.068-05	11.711
4.0000	.2500	7.495+13	1.890+08	-20.691	1.009-05	12.491	1.898+08	-20.696	1.013-05	12.486
5.0000	.2000	5.996+13	7.978+07	-19.755	6.653-06	12.942	8.007+07	-19.759	6.677-06	12.939
6.5000	.1538	4.612+13	2.865+07	-18.643	4.038-06	13.485	2.874+07	-18.646	4.050-06	13.481



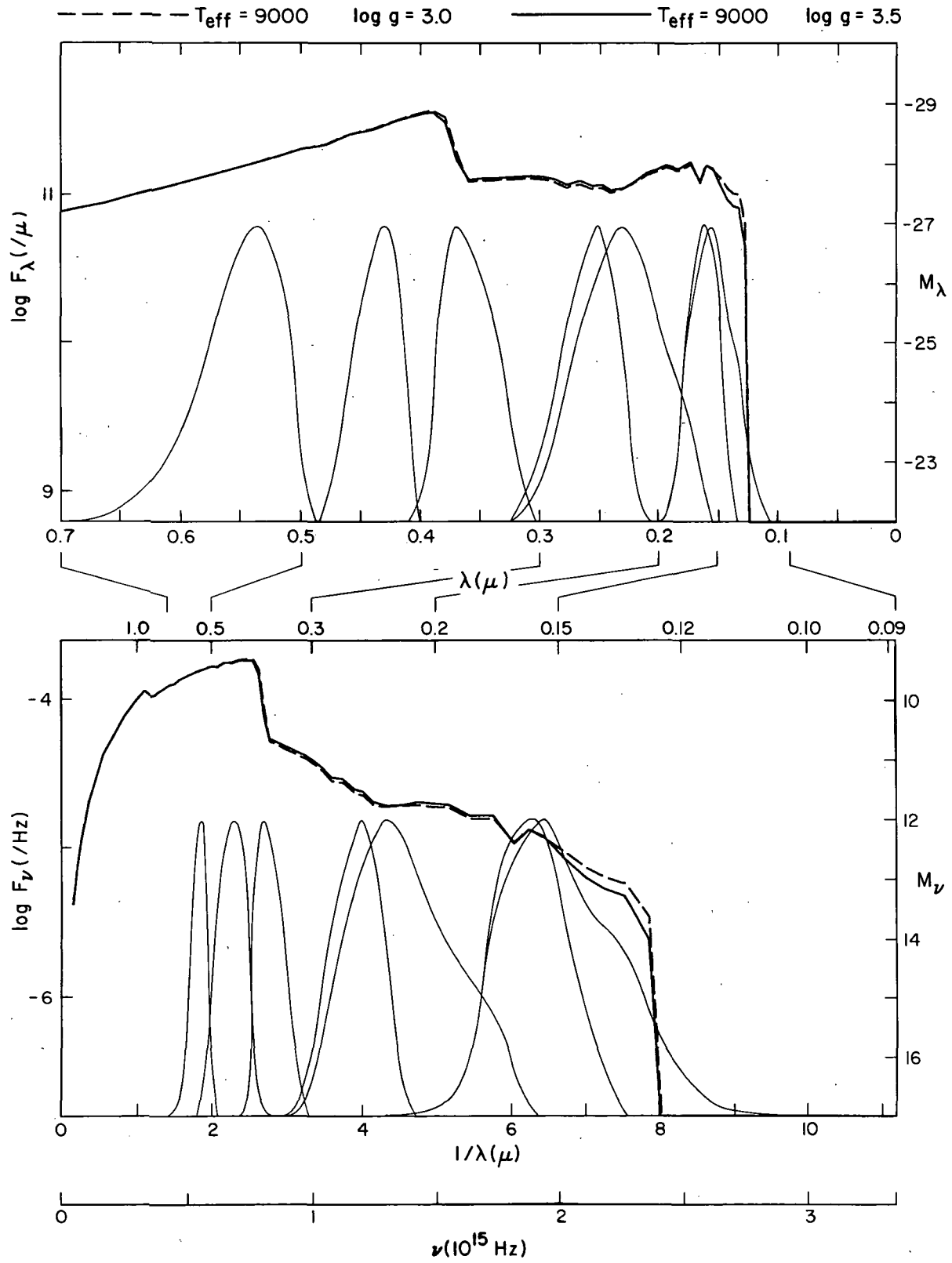
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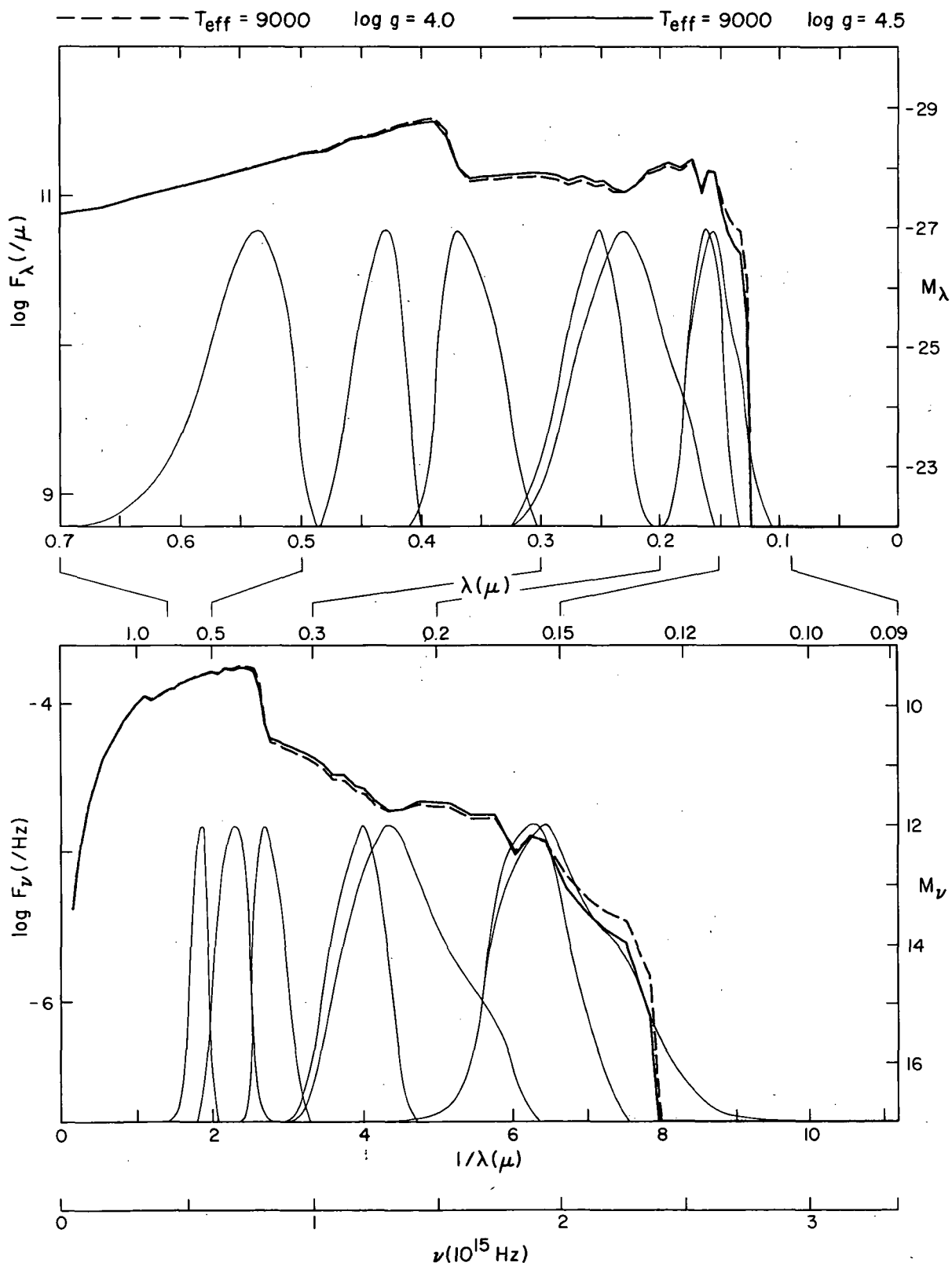
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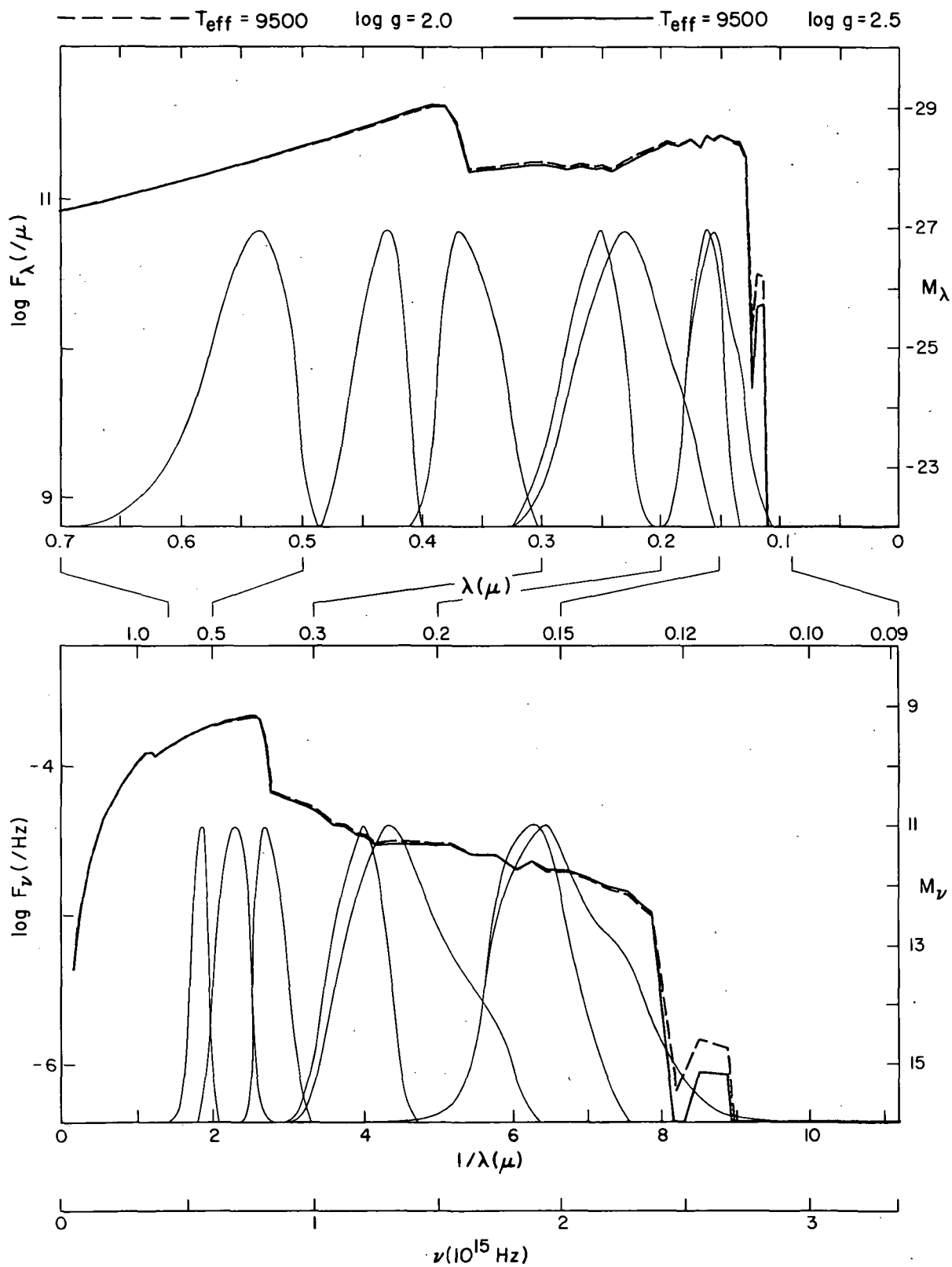
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	5.292-06	13.191	4.682-23	35.824	6.519-06	12.965	5.767-23	55.598
.0540	18.5185	5.552+15	3.971-05	11.003	3.862-22	33.533	4.623-05	10.838	4.497-22	53.368
.0565	17.6991	5.306+15	2.538-04	8.989	2.703-21	31.421	2.820-04	8.874	3.003-21	51.306
.0587	17.0358	5.107+15	1.158-03	7.341	1.331-20	49.690	1.246-03	7.261	1.432-20	49.610
.0612	16.3399	4.899+15	5.784-03	5.594	7.226-20	47.853	6.058-03	5.544	7.569-20	47.802
.0634	15.7729	4.729+15	2.162-02	4.163	2.899-19	46.344	2.226-02	4.131	2.985-19	46.313
.0671	14.9031	4.468+15	1.651-01	1.956	2.480-18	44.014	1.668-01	1.945	2.505-18	44.003
.0705	14.1844	4.252+15	8.896-01	.127	1.475-17	42.078	8.898-01	.127	1.475-17	42.078
.0736	13.5870	4.073+15	3.606+00	-1.393	6.516-17	40.465	3.587+00	-1.387	6.481-17	40.471
.0770	12.9870	3.893+15	1.465+01	-2.915	2.897-16	38.845	1.453+01	-2.906	2.874-16	38.854
.0810	12.3457	3.701+15	6.520+01	-4.536	1.427-15	37.114	6.452+01	-4.524	1.412-15	37.125
.0850	11.7647	3.527+15	2.502+02	-5.996	6.030-15	35.549	2.473+02	-5.983	5.960-15	35.562
.0890	11.2360	3.368+15	8.437+02	-7.315	2.229-14	34.130	8.339+02	-7.303	2.203-14	34.142
.0930	10.7527	3.224+15	8.610+05	-14.838	2.484-11	32.512	5.393+05	-14.330	1.556-11	27.020
.0975	10.2564	3.075+15	2.857+06	-16.140	9.059-11	31.107	1.821+06	-15.651	5.774-11	25.596
.1025	9.7561	2.925+15	6.692+06	-17.064	2.345-10	24.075	4.325+06	-16.590	1.516-10	24.548
.1075	9.3023	2.789+15	1.381+07	-17.850	5.323-10	23.185	9.104+06	-17.398	3.509-10	23.637
.1125	8.8889	2.665+15	1.646+09	-23.041	6.949-08	17.895	4.118+08	-21.537	1.738-08	19.400
.1175	8.5106	2.551+15	1.732+09	-23.096	7.976-08	17.745	4.477+08	-21.627	2.062-08	19.214
.1220	8.1967	2.457+15	7.481+08	-22.185	3.714-08	18.575	2.971+08	-21.182	1.475-08	19.578
.1270	7.8740	2.361+15	8.813+10	-27.363	4.741-06	13.310	8.027+10	-27.261	4.319-06	13.412
.1325	7.5472	2.263+15	1.187+11	-27.686	6.951-06	12.895	1.124+11	-27.627	6.582-06	12.954
.1375	7.2727	2.184+15	1.235+11	-27.729	7.788-06	12.771	1.152+11	-27.654	7.265-06	12.847
.1422	7.0323	2.108+15	1.336+11	-27.815	9.011-06	12.613	1.242+11	-27.735	8.377-06	12.692
.1482	6.7476	2.023+15	1.479+11	-27.925	1.084-05	12.413	1.405+11	-27.869	1.029-05	12.469
.1547	6.4641	1.938+15	1.436+11	-27.893	1.146-05	12.352	1.461+11	-27.912	1.166-05	12.333
.1598	6.2578	1.876+15	1.593+11	-28.006	1.357-05	12.169	1.585+11	-28.000	1.350-05	12.174
.1649	6.0643	1.818+15	1.265+11	-27.755	1.147-05	12.351	1.235+11	-27.729	1.120-05	12.377
.1730	5.7803	1.733+15	1.559+11	-27.982	1.556-05	12.020	1.562+11	-27.984	1.559-05	12.018
.1830	5.4645	1.638+15	1.407+11	-27.871	1.572-05	12.009	1.405+11	-27.869	1.569-05	12.011
.1930	5.1813	1.553+15	1.534+11	-27.965	1.906-05	11.800	1.509+11	-27.947	1.875-05	11.818
.2015	4.9628	1.488+15	1.410+11	-27.873	1.910-05	11.798	1.392+11	-27.859	1.885-05	11.812
.2100	4.7619	1.428+15	1.333+11	-27.812	1.961-05	11.769	1.317+11	-27.799	1.937-05	11.782
.2200	4.5455	1.363+15	1.217+11	-27.713	1.965-05	11.767	1.192+11	-27.691	1.924-05	11.789
.2300	4.3478	1.303+15	1.106+11	-27.609	1.952-05	11.774	1.085+11	-27.589	1.915-05	11.795
.2400	4.1667	1.245+15	9.865+10	-27.485	1.895-05	11.806	9.872+10	-27.486	1.897-05	11.805
.2482	4.0290	1.208+15	1.080+11	-27.584	2.219-05	11.634	1.077+11	-27.581	2.213-05	11.638
.2557	3.9108	1.172+15	1.054+11	-27.557	2.299-05	11.596	1.054+11	-27.557	2.299-05	11.596
.2660	3.7594	1.127+15	1.135+11	-27.637	2.679-05	11.430	1.137+11	-27.639	2.684-05	11.428
.2770	3.6101	1.082+15	1.069+11	-27.572	2.736-05	11.407	1.072+11	-27.575	2.744-05	11.404
.2870	3.4843	1.045+15	1.174+11	-27.674	3.226-05	11.228	1.174+11	-27.674	3.226-05	11.228
.2970	3.3670	1.009+15	1.238+11	-27.732	3.643-05	11.096	1.236+11	-27.730	3.637-05	11.098
.3070	3.2573	9.765+14	1.255+11	-27.747	3.945-05	11.010	1.252+11	-27.744	3.936-05	11.012
.3170	3.1546	9.457+14	1.236+11	-27.730	4.143-05	10.957	1.236+11	-27.730	4.143-05	10.957
.3270	3.0581	9.168+14	1.231+11	-27.726	4.391-05	10.894	1.231+11	-27.726	4.391-05	10.894
.3370	2.9674	8.896+14	1.213+11	-27.710	4.595-05	10.844	1.213+11	-27.710	4.595-05	10.844
.3480	2.8736	8.615+14	1.212+11	-27.709	4.896-05	10.775	1.212+11	-27.709	4.896-05	10.775
.3600	2.7778	8.328+14	1.190+11	-27.689	5.144-05	10.722	1.190+11	-27.689	5.144-05	10.722
.3700	2.7027	8.102+14	2.325+11	-28.416	1.062-04	9.935	2.073+11	-28.291	9.466-05	10.060
.3800	2.6316	7.889+14	3.525+11	-28.868	1.698-04	9.425	3.474+11	-28.852	1.673-04	9.441
.3900	2.5641	7.687+14	3.627+11	-28.899	1.840-04	9.338	3.690+11	-28.918	1.872-04	9.319
.4000	2.5000	7.495+14	3.467+11	-28.850	1.850-04	9.332	3.536+11	-28.871	1.887-04	9.310
.4200	2.3810	7.138+14	3.094+11	-28.726	1.821-04	9.350	3.155+11	-28.747	1.856-04	9.328
.4400	2.2727	6.813+14	2.722+11	-28.587	1.758-04	9.388	2.759+11	-28.602	1.782-04	9.373
.4600	2.1739	6.517+14	2.466+11	-28.480	1.741-04	9.398	2.509+11	-28.499	1.771-04	9.380
.4800	2.0833	6.246+14	2.169+11	-28.341	1.667-04	9.445	2.180+11	-28.346	1.675-04	9.440
.5000	2.0000	5.996+14	1.985+11	-28.244	1.655-04	9.453	2.008+11	-28.257	1.674-04	9.440
.5200	1.9231	5.765+14	1.774+11	-28.122	1.600-04	9.490	1.791+11	-28.133	1.615-04	9.479
.5400	1.8519	5.552+14	1.598+11	-28.009	1.554-04	9.521	1.611+11	-28.018	1.567-04	9.512
.5600	1.7857	5.353+14	1.444+11	-27.899	1.511-04	9.552	1.454+11	-27.906	1.521-04	9.545
.5800	1.7241	5.169+14	1.305+11	-27.789	1.464-04	9.586	1.313+11	-27.796	1.473-04	9.579
.6050	1.6529	4.955+14	1.154+11	-27.656	1.409-04	9.628	1.161+11	-27.662	1.417-04	9.621
.6350	1.5748	4.721+14	1.000+11	-27.500	1.345-04	9.678	1.005+11	-27.505	1.352-04	9.673
.6650	1.5038	4.508+14	8.636+10	-27.341	1.274-04	9.737	8.636+10	-27.341	1.274-04	9.737
.6950	1.4388	4.314+14	7.649+10	-27.209	1.232-04	9.773	7.681+10	-27.214	1.238-04	9.769
.7250	1.3793	4.135+14	6.723+10	-27.069	1.179-04	9.821	6.748+10	-27.073	1.183-04	9.817
.7550	1.3245	3.971+14	5.939+10	-26.934	1.129-04	9.868	5.960+10	-26.938	1.133-04	9.864
.7850	1.2739	3.819+14	5.261+10	-26.803	1.081-04	9.915	5.280+10	-26.807	1.085-04	9.911
.8100	1.2346	3.701+14	4.783+10	-26.699	1.047-04	9.950	4.801+10	-26.703	1.051-04	9.946
.8350	1.1976	3.590+14	4.572+10	-26.650	1.063-04	9.933	4.498+10	-26.633	1.046-04	9.951
.9000	1.1111	3.331+14	4.171+10	-26.551	1.127-04	9.870	4.208+10	-26.560	1.137-04	9.861
1.0000	1.0000	2.998+14	2.923+10	-26.165	9.750-05	10.027	2.945+10	-26.173	9.823-05	10.019
1.2000	.8333	2.498+14	1.560+10	-25.483	7.493-05	10.313	1.570+10	-25.490	7.541-05	10.306
1.6000	.5556	1.666+14	3.863+09	-23.967	4.175-05	10.948	3.889+09	-23.975	4.203-05	10.941
2.7000	.3704	1.110+14	8.678+08	-22.346	2.110-05	11.689	8.722+08	-22.352	2.121-05	11.684
4.0000	.2500	7.495+13	1.947+08	-20.723	1.039-05	12.458	1.954+08	-20.727	1.043-05	12.454
5.0000	.2000	5.996+13	8.236+07	-19.789	6.868-06	12.908	8.260+07	-19.792	6.888-06	12.905
6.5000	.1538	4.612+13	2.963+07	-18.679	4.176-06	13.448	2.970+07	-18.682	4.186-06	13.446



TEFF = 9000					LOG G = 3.0		TEFF = 9000					LOG G = 3.5	
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)			
.0515	19.4175	5.821+15	1.021-05	12.477	9.033-23	35.110	1.332-05	12.189	1.178-22	54.822			
.0540	18.5185	5.552+15	7.381-05	10.330	7.179-22	32.860	8.861-05	10.131	8.619-22	52.661			
.0565	17.6991	5.306+15	4.569-04	8.350	4.865-21	30.782	5.107-04	8.230	5.438-21	50.661			
.0587	17.0358	5.107+15	2.034-03	6.729	2.338-20	29.078	2.163-03	6.662	2.486-20	49.011			
.0612	16.3399	4.899+15	9.914-03	5.009	1.239-19	27.268	1.010-02	4.989	1.262-19	47.247			
.0634	15.7729	4.729+15	3.635-02	3.599	4.874-19	25.780	3.604-02	3.608	4.832-19	45.790			
.0671	14.9031	4.468+15	2.697-01	1.423	4.050-18	23.481	2.597-01	1.464	3.900-18	43.522			
.0705	14.1844	4.252+15	1.420+00	-.381	2.354-17	21.570	1.347+00	-.323	2.233-17	41.628			
.0736	13.5870	4.073+15	5.645+00	-1.879	1.020-16	19.979	5.315+00	-1.814	9.604-17	40.044			
.0770	12.9870	3.893+15	2.250+01	-3.380	4.450-16	18.379	2.111+01	-3.311	4.175-16	38.448			
.0810	12.3457	3.701+15	9.806+01	-4.979	2.146-15	16.671	9.184+01	-4.908	2.010-15	36.742			
.0850	11.7647	3.527+15	3.693+02	-6.418	8.900-15	15.127	3.459+02	-6.347	8.336-15	35.198			
.0890	11.2360	3.368+15	1.224+03	-7.719	3.234-14	13.726	1.148+03	-7.650	3.033-14	33.795			
.0930	10.7527	3.224+15	4.690+05	-14.176	1.353-11	11.772	2.945+05	-13.673	8.496-12	27.677			
.0975	10.2564	3.075+15	1.600+06	-15.510	5.074-11	10.737	1.020+06	-15.022	3.234-11	26.226			
.1025	9.7561	2.925+15	3.817+06	-16.454	1.338-10	9.684	2.451+06	-15.973	8.590-11	25.165			
.1075	9.3023	2.789+15	8.119+06	-17.274	3.130-10	8.761	5.298+06	-16.810	2.042-10	24.225			
.1125	8.8889	2.665+15	1.386+08	-20.354	5.851-09	8.082	8.478+07	-19.821	3.579-09	21.116			
.1175	8.5106	2.551+15	1.946+08	-20.723	8.962-09	7.419	1.446+08	-20.400	6.659-09	20.441			
.1220	8.1967	2.457+15	2.343+08	-20.924	1.163-08	6.836	2.038+08	-20.773	1.012-08	19.987			
.1270	7.8740	2.361+15	6.534+10	-27.038	3.515-06	4.635	4.563+10	-26.648	2.455-06	14.025			
.1325	7.5472	2.263+15	1.000+11	-27.500	5.856-06	4.081	8.165+10	-27.280	4.782-06	13.301			
.1375	7.2727	2.180+15	1.024+11	-27.526	6.458-06	3.975	8.473+10	-27.320	5.343-06	13.180			
.1422	7.0323	2.108+15	1.111+11	-27.614	7.494-06	3.813	9.357+10	-27.428	6.311-06	13.000			
.1482	6.7476	2.023+15	1.301+11	-27.786	9.531-06	3.552	1.154+11	-27.656	8.454-06	12.682			
.1547	6.4641	1.938+15	1.486+11	-27.930	1.186+05	3.215	1.506+11	-27.945	1.202+05	12.300			
.1598	6.2578	1.876+15	1.585+11	-28.000	1.350+05	2.774	1.582+11	-27.998	1.348+05	12.176			
.1649	6.0643	1.818+15	1.215+11	-27.711	1.102+05	2.395	1.189+11	-27.688	1.078+05	12.418			
.1730	5.7803	1.733+15	1.598+11	-28.009	1.595+05	1.993	1.659+11	-28.050	1.656+05	11.952			
.1830	5.4645	1.638+15	1.437+11	-27.894	1.605+05	1.986	1.491+11	-27.934	1.666+05	11.946			
.1930	5.1813	1.553+15	1.534+11	-27.965	1.906+05	1.800	1.588+11	-28.002	1.973+05	11.762			
.2015	4.9628	1.488+15	1.421+11	-27.881	1.925+05	1.789	1.477+11	-27.923	2.000+05	11.747			
.2100	4.7619	1.428+15	1.347+11	-27.823	1.981+05	1.758	1.401+11	-27.866	2.061+05	11.715			
.2200	4.5455	1.363+15	1.203+11	-27.701	1.942+05	1.779	1.221+11	-27.717	1.971+05	11.763			
.2300	4.3478	1.303+15	1.092+11	-27.596	1.927+05	1.788	1.097+11	-27.601	1.936+05	11.783			
.2400	4.1667	1.249+15	1.023+11	-27.525	1.966+05	1.766	1.066+11	-27.569	2.048+05	11.722			
.2482	4.0290	1.208+15	1.115+11	-27.618	2.291+05	1.600	1.168+11	-27.669	2.400+05	11.549			
.2557	3.9108	1.172+15	1.095+11	-27.599	2.388+05	1.555	1.148+11	-27.650	2.504+05	11.504			
.2660	3.7594	1.127+15	1.183+11	-27.682	2.792+05	1.385	1.243+11	-27.736	2.934+05	11.331			
.2770	3.6101	1.082+15	1.115+11	-27.618	2.854+05	1.361	1.169+11	-27.670	2.992+05	11.310			
.2870	3.4843	1.045+15	1.216+11	-27.712	3.341+05	1.190	1.272+11	-27.761	3.495+05	11.141			
.2970	3.3670	1.009+15	1.275+11	-27.764	3.751+05	1.064	1.327+11	-27.807	3.904+05	11.021			
.3070	3.2573	9.765+14	1.289+11	-27.776	4.052+05	1.081	1.339+11	-27.817	4.210+05	10.939			
.3170	3.1546	9.457+14	1.273+11	-27.762	4.267+05	1.025	1.321+11	-27.802	4.428+05	10.884			
.3270	3.0581	9.168+14	1.267+11	-27.757	4.519+05	1.082	1.314+11	-27.796	4.687+05	10.823			
.3370	2.9674	8.896+14	1.248+11	-27.741	4.728+05	1.013	1.291+11	-27.777	4.891+05	10.777			
.3480	2.8736	8.615+14	1.244+11	-27.737	5.025+05	1.077	1.285+11	-27.772	5.191+05	10.712			
.3600	2.7778	8.328+14	1.219+11	-27.715	5.270+05	1.096	1.257+11	-27.748	5.434+05	10.662			
.3700	2.7027	8.102+14	1.898+11	-28.196	8.667+05	1.155	1.706+11	-28.080	7.790+05	10.271			
.3800	2.6316	7.889+14	3.324+11	-28.804	1.601+04	9.489	3.084+11	-28.723	1.485+04	9.570			
.3900	2.5641	7.687+14	3.668+11	-28.911	1.861+04	9.326	3.582+11	-28.885	1.817+04	9.351			
.4000	2.5000	7.495+14	3.527+11	-28.869	1.882+04	9.313	3.464+11	-28.849	1.849+04	9.333			
.4200	2.3810	7.138+14	3.162+11	-28.750	1.861+04	9.326	3.136+11	-28.741	1.845+04	9.335			
.4400	2.2727	6.813+14	2.757+11	-28.601	1.780+04	9.374	2.730+11	-28.590	1.763+04	9.384			
.4600	2.1739	6.517+14	2.525+11	-28.506	1.782+04	9.373	2.524+11	-28.505	1.781+04	9.373			
.4800	2.0833	6.246+14	2.172+11	-28.342	1.669+04	9.444	2.150+11	-28.331	1.652+04	9.455			
.5000	2.0000	5.996+14	2.017+11	-28.262	1.682+04	9.435	2.018+11	-28.262	1.683+04	9.435			
.5200	1.9231	5.765+14	1.800+11	-28.138	1.624+04	9.474	1.801+11	-28.139	1.624+04	9.473			
.5400	1.8519	5.552+14	1.618+11	-28.022	1.574+04	9.508	1.621+11	-28.024	1.577+04	9.506			
.5600	1.7857	5.353+14	1.461+11	-27.912	1.528+04	9.539	1.466+11	-27.915	1.534+04	9.536			
.5800	1.7241	5.169+14	1.321+11	-27.802	1.482+04	9.573	1.326+11	-27.806	1.488+04	9.569			
.6050	1.6529	4.955+14	1.167+11	-27.668	1.425+04	9.616	1.173+11	-27.673	1.432+04	9.610			
.6350	1.5748	4.721+14	1.011+11	-27.512	1.360+04	9.666	1.017+11	-27.518	1.368+04	9.660			
.6650	1.5038	4.508+14	8.656+10	-27.343	1.277+04	9.735	8.667+10	-27.345	1.278+04	9.733			
.6950	1.4388	4.314+14	7.738+10	-27.222	1.247+04	9.761	7.796+10	-27.230	1.256+04	9.752			
.7250	1.3793	4.135+14	6.800+10	-27.081	1.192+04	9.809	6.852+10	-27.090	1.201+04	9.801			
.7550	1.3245	3.971+14	6.007+10	-26.947	1.142+04	9.856	6.056+10	-26.955	1.151+04	9.847			
.7850	1.2739	3.819+14	5.325+10	-26.816	1.095+04	9.902	5.373+10	-26.826	1.104+04	9.892			
.8100	1.2346	3.701+14	4.844+10	-26.713	1.060+04	9.937	4.888+10	-26.723	1.070+04	9.927			
.8350	1.1976	3.590+14	4.494+10	-26.632	1.045+04	9.952	4.521+10	-26.638	1.051+04	9.946			
.9000	1.1111	3.331+14	4.227+10	-26.565	1.142+04	9.856	4.233+10	-26.567	1.144+04	9.854			
1.0000	1.0000	2.998+14	2.962+10	-26.179	9.880+05	10.013	2.974+10	-26.183	9.920+05	10.009			
1.2000	.8333	2.498+14	1.583+10	-25.499	7.604+05	10.297	2.594+10	-25.506	7.656+05	10.290			
1.6000	.5556	1.666+14	3.921+09	-23.983	4.238+05	10.932	3.952+09	-23.992	4.271+05	10.924			
2.7000	.3704	1.110+14	8.780+08	-22.359	2.135+05	11.676	8.834+08	-22.365	2.148+05	11.670			
4.0000	.2500	7.495+13	1.965+08	-20.733	1.049+05	12.448	1.975+08	-20.739	1.054+05	12.443			
5.0000	.2000	5.996+13	8.303+07	-19.798	6.924+06	12.899	8.341+07	-19.803	6.956+06	12.894			
6.5000	.1538	4.612+13	2.984+07	-18.687	4.205+06	13.440	2.997+07	-18.692	4.224+06	13.433			

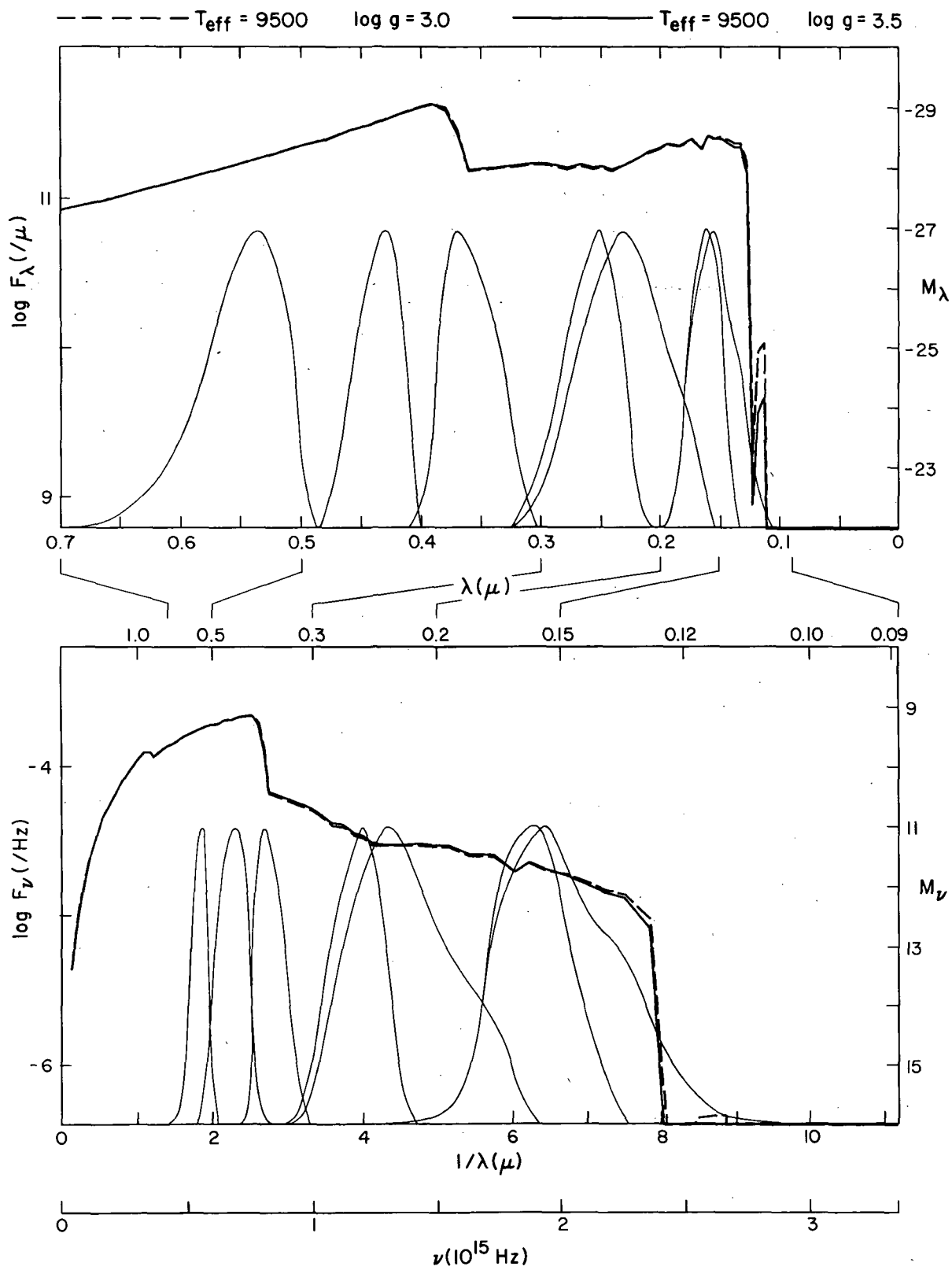


		TEFF = 9000		LOG G = 4.0		TEFF = 9000		LOG G = 4.5		
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	1.634-05	11.967	1.446-22	54.600	2.838-05	11.367	2.511-22	54.000
.0540	18.5185	5.552+15	1.030-04	9.968	1.002-21	52.498	1.741-04	9.398	1.693-21	51.928
.0565	17.6991	5.306+15	5.655-04	8.119	6.022-21	50.551	9.313-04	7.577	9.917-21	50.009
.0587	17.0358	5.107+15	2.310-03	6.591	2.655-20	48.940	3.726-03	6.072	4.283-20	48.421
.0612	16.3399	4.899+15	1.045-02	4.952	1.306-19	47.211	1.649-02	4.457	2.060-19	46.715
.0634	15.7729	4.729+15	3.650-02	3.594	4.894-19	45.776	5.658-02	3.118	7.586-19	45.300
.0671	14.9031	4.468+15	2.568-01	1.476	3.857-18	43.534	3.877-01	1.029	5.823-18	43.087
.0705	14.1844	4.252+15	1.316+00	-.298	2.182-17	41.653	1.944+00	-.722	3.223-17	41.229
.0736	13.5870	4.073+15	5.160+00	-1.782	9.324-17	40.076	7.493+00	-2.187	1.354-16	39.671
.0770	12.9870	3.893+15	2.042+01	-3.275	4.038-16	38.484	2.914+01	-3.661	5.763-16	38.098
.0810	12.3457	3.701+15	8.869+01	-4.870	1.941-15	36.780	1.243+02	-5.236	2.720-15	36.413
.0850	11.7647	3.527+15	3.340+02	-6.309	8.049-15	35.236	4.606+02	-6.658	1.110-14	34.887
.0890	11.2360	3.368+15	1.109+03	-7.612	2.930-14	33.833	1.507+03	-7.945	3.982-14	33.500
.0930	10.7527	3.224+15	1.723+05	-13.091	4.971-12	28.259	1.717+05	-13.087	4.954-12	28.263
.0975	10.2564	3.075+15	6.053+05	-14.455	1.919-11	26.792	6.161+05	-14.474	1.954-11	26.773
.1025	9.7561	2.925+15	1.470+06	-15.418	5.152-11	25.720	1.490+06	-15.433	5.222-11	25.705
.1075	9.3023	2.789+15	3.236+06	-16.275	1.247-10	24.760	3.291+06	-16.293	1.269-10	24.742
.1125	8.8889	2.665+15	7.234+07	-19.648	3.054-09	21.288	7.247+07	-19.650	3.059-09	21.286
.1175	8.5106	2.551+15	1.270+08	-20.260	5.849-09	20.582	1.270+08	-20.260	5.849-09	20.582
.1220	8.1967	2.457+15	1.777+08	-20.624	8.822-09	20.136	1.730+08	-20.595	8.589-09	20.165
.1270	7.8740	2.361+15	2.801+10	-26.118	1.507-06	14.555	1.513+10	-25.450	8.140-07	15.223
.1325	7.5472	2.263+15	6.072+10	-26.958	3.556-06	13.623	4.276+10	-26.578	2.504-06	14.003
.1375	7.2727	2.180+15	6.492+10	-27.031	4.094-06	13.470	4.849+10	-26.714	3.058-06	13.786
.1422	7.0323	2.108+15	7.378+10	-27.170	4.976-06	13.258	5.760+10	-26.901	3.885-06	13.526
.1482	6.7476	2.023+15	9.679+10	-27.465	7.091-06	12.873	7.972+10	-27.254	5.840-06	13.084
.1547	6.4641	1.938+15	1.507+11	-27.945	1.203-05	12.299	1.518+11	-27.953	1.212-05	12.291
.1598	6.2578	1.876+15	1.557+11	-27.981	1.326-05	12.193	1.534+11	-27.965	1.307-05	12.210
.1649	6.0643	1.818+15	1.137+11	-27.639	1.031-05	12.467	1.081+11	-27.585	9.805-06	12.521
.1730	5.7803	1.733+15	1.730+11	-28.095	1.727-05	11.907	1.830+11	-28.156	1.827-05	11.846
.1830	5.4645	1.638+15	1.547+11	-27.974	1.728-05	11.906	1.622+11	-28.025	1.812-05	11.855
.1930	5.1813	1.553+15	1.654+11	-28.046	2.055-05	11.718	1.748+11	-28.106	2.172-05	11.658
.2015	4.9628	1.488+15	1.542+11	-27.970	2.088-05	11.700	1.629+11	-28.030	2.206-05	11.641
.2100	4.7619	1.428+15	1.460+11	-27.911	2.148-05	11.670	1.534+11	-27.965	2.257-05	11.616
.2200	4.5455	1.363+15	1.230+11	-27.725	1.986-05	11.755	1.230+11	-27.725	1.986-05	11.755
.2300	4.3478	1.303+15	1.097+11	-27.601	1.936-05	11.783	1.101+11	-27.604	1.943-05	11.779
.2400	4.1667	1.249+15	1.113+11	-27.616	2.138-05	11.675	1.179+11	-27.679	2.265-05	11.612
.2482	4.0290	1.208+15	1.232+11	-27.727	2.532-05	11.492	1.321+11	-27.802	2.714-05	11.416
.2557	3.9108	1.172+15	1.210+11	-27.707	2.639-05	11.446	1.298+11	-27.783	2.831-05	11.370
.2660	3.7594	1.127+15	1.315+11	-27.797	3.104-05	11.270	1.416+11	-27.878	3.342-05	11.190
.2770	3.6101	1.082+15	1.233+11	-27.727	3.156-05	11.252	1.319+11	-27.801	3.376-05	11.179
.2870	3.4843	1.045+15	1.340+11	-27.818	3.682-05	11.085	1.436+11	-27.893	3.945-05	11.010
.2970	3.3670	1.009+15	1.392+11	-27.859	4.096-05	10.969	1.484+11	-27.929	4.366-05	10.900
.3070	3.2573	9.765+14	1.401+11	-27.866	4.404-05	10.890	1.489+11	-27.932	4.681-05	10.824
.3170	3.1546	9.457+14	1.382+11	-27.851	4.632-05	10.835	1.466+11	-27.915	4.914-05	10.771
.3270	3.0581	9.168+14	1.372+11	-27.843	4.894-05	10.776	1.452+11	-27.905	5.179-05	10.714
.3370	2.9674	8.896+14	1.345+11	-27.822	5.095-05	10.732	1.421+11	-27.881	5.383-05	10.672
.3480	2.8736	8.615+14	1.336+11	-27.815	5.397-05	10.670	1.406+11	-27.870	5.680-05	10.614
.3600	2.7778	8.348+14	1.304+11	-27.788	5.637-05	10.622	1.368+11	-27.840	5.914-05	10.570
.3700	2.7027	8.102+14	1.623+11	-28.026	7.411-05	10.325	1.628+11	-28.029	7.434-05	10.322
.3800	2.6316	7.889+14	2.866+11	-28.643	1.380-04	9.650	2.623+11	-28.547	1.263-04	9.746
.3900	2.5641	7.687+14	3.450+11	-28.845	1.750-04	9.392	3.288+11	-28.792	1.668-04	9.444
.4000	2.5000	7.495+14	3.360+11	-28.816	1.793-04	9.366	3.231+11	-28.773	1.724-04	9.408
.4200	2.3810	7.138+14	3.081+11	-28.722	1.813-04	9.354	3.013+11	-28.697	1.773-04	9.378
.4400	2.2727	6.813+14	2.680+11	-28.570	1.731-04	9.404	2.619+11	-28.545	1.691-04	9.429
.4600	2.1739	6.517+14	2.504+11	-28.497	1.767-04	9.382	2.475+11	-28.484	1.747-04	9.394
.4800	2.0833	6.246+14	2.115+11	-28.313	1.625-04	9.473	2.074+11	-28.292	1.594-04	9.494
.5000	2.0000	5.996+14	2.005+11	-28.255	1.672-04	9.442	1.989+11	-28.247	1.659-04	9.451
.5200	1.9231	5.765+14	1.794+11	-28.135	1.618-04	9.477	1.783+11	-28.128	1.608-04	9.484
.5400	1.8519	5.552+14	1.616+11	-28.021	1.572-04	9.509	1.610+11	-28.017	1.566-04	9.513
.5600	1.7857	5.353+14	1.464+11	-27.914	1.531-04	9.537	1.461+11	-27.912	1.528-04	9.539
.5800	1.7241	5.169+14	1.326+11	-27.806	1.488-04	9.569	1.325+11	-27.806	1.487-04	9.569
.6050	1.6529	4.955+14	1.175+11	-27.675	1.435-04	9.608	1.176+11	-27.676	1.436-04	9.607
.6350	1.5746	4.721+14	1.020+11	-27.522	1.372-04	9.657	1.023+11	-27.525	1.376-04	9.653
.6650	1.5038	4.508+14	8.658+10	-27.344	1.277-04	9.734	8.657+10	-27.343	1.277-04	9.735
.6950	1.4388	4.314+14	7.840+10	-27.236	1.263-04	9.746	7.892+10	-27.243	1.272-04	9.739
.7250	1.3793	4.135+14	6.894+10	-27.096	1.209-04	9.794	6.946+10	-27.104	1.218-04	9.786
.7550	1.3245	3.971+14	6.099+10	-26.963	1.160-04	9.839	6.151+10	-26.972	1.170-04	9.830
.7850	1.2739	3.819+14	5.415+10	-26.834	1.113-04	9.884	5.468+10	-26.845	1.124-04	9.873
.8100	1.2346	3.701+14	4.930+10	-26.732	1.079-04	9.918	4.982+10	-26.744	1.090-04	9.906
.8350	1.1976	3.590+14	4.571+10	-26.650	1.063-04	9.934	4.657+10	-26.670	1.083-04	9.913
.9000	1.1111	3.331+14	4.220+10	-26.563	1.140-04	9.858	4.203+10	-26.559	1.136-04	9.862
1.0000	1.0000	2.998+14	2.976+10	-26.184	9.927-05	10.008	2.978+10	-26.185	9.934-05	10.007
1.2000	.8333	2.498+14	1.604+10	-25.513	7.705-05	10.283	1.615+10	-25.520	7.757-05	10.276
1.8000	.5556	1.666+14	3.982+09	-24.000	4.304-05	10.915	4.017+09	-24.010	4.341-05	10.906
2.7000	.3704	1.110+14	8.884+08	-22.372	2.160-05	11.664	8.944+08	-22.379	2.175-05	11.656
4.0000	.2500	7.495+13	1.984+08	-20.744	1.059-05	12.438	1.995+08	-20.750	1.065-05	12.432
5.0000	.2000	5.996+13	8.376+07	-19.808	6.985-06	12.890	8.418+07	-19.813	7.020-06	12.884
6.5000	.1538	4.612+13	3.009+07	-18.696	4.241-06	13.431	3.022+07	-18.701	4.259-06	13.427

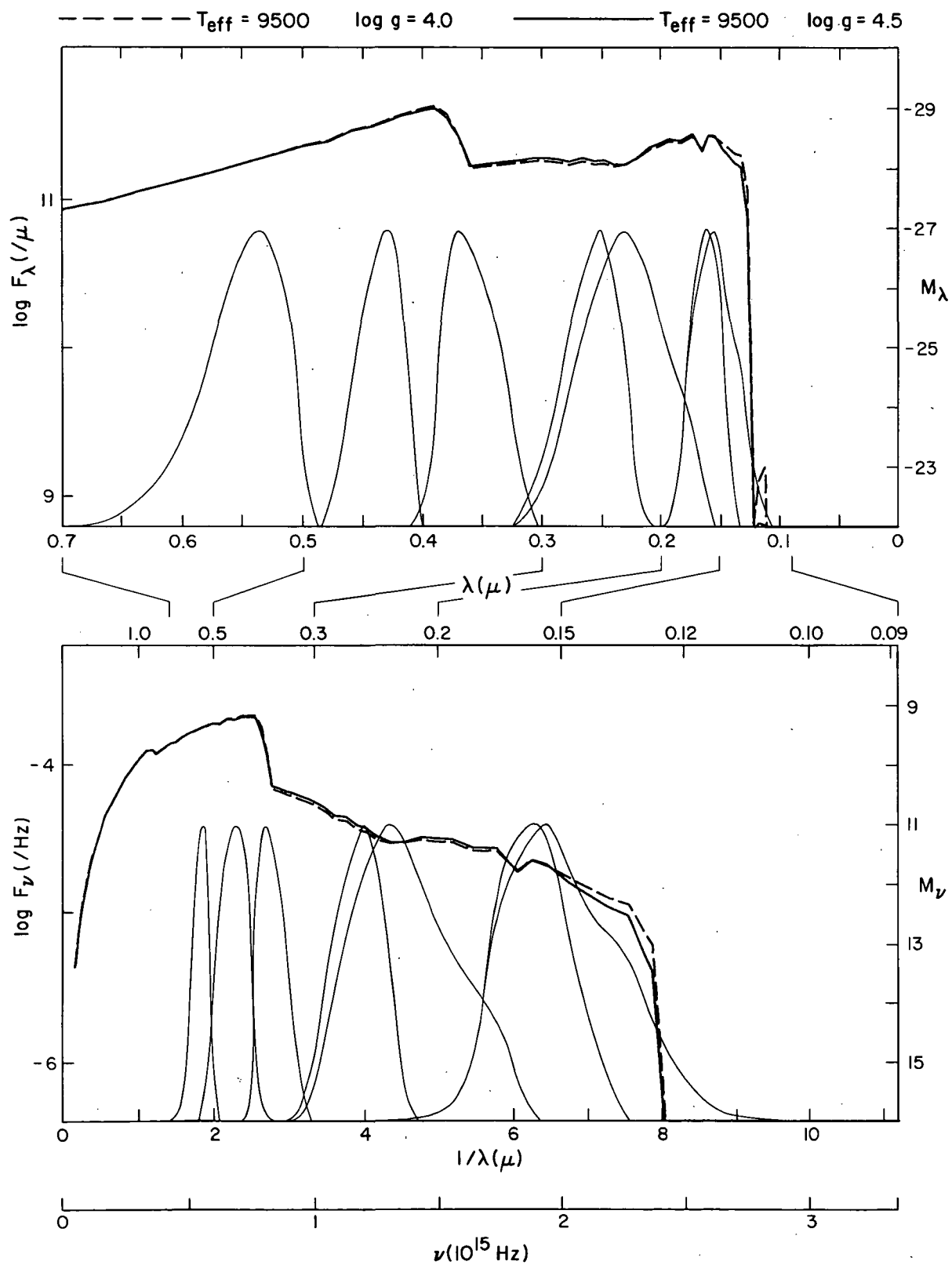




TEFF = 9500							TEFF = 9500						
LOG G = 2.0							LOG G = 2.5						
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)			
.0515	19.4175	5.821+15	3.065-04	8.784	2.712-21	51.417	3.546-04	8.626	3.137-21	51.259			
.0540	16.5185	5.552+15	1.979-03	6.759	1.925-20	49.289	2.281-03	6.605	2.219-20	49.135			
.0565	17.6991	5.306+15	1.094-02	4.902	1.165-19	47.334	1.259-02	4.750	1.341-19	47.182			
.0587	17.0358	5.107+15	4.404-02	3.390	5.062-19	45.739	5.071-02	3.237	5.828-19	45.586			
.0612	16.3399	4.899+15	1.919-01	1.792	2.397-18	44.051	2.209-01	1.640	2.760-18	43.898			
.0634	15.7729	4.729+15	6.392-01	.486	8.570-18	42.668	7.359-01	.333	9.867-18	42.515			
.0671	14.9031	4.468+15	4.069-00	-1.524	6.111-17	40.535	4.681+00	-1.676	7.030-17	40.383			
.0705	14.1844	4.252+15	1.881-01	-3.186	3.119-16	38.765	2.160+01	-3.336	3.581-16	38.615			
.0736	13.5870	4.073+15	6.702-01	-4.566	1.211-15	37.292	7.679+01	-4.713	1.388-15	37.144			
.0770	12.9870	3.893+15	2.392-02	-5.947	4.731-15	35.813	2.732+02	-6.091	5.403-15	35.668			
.0810	12.3457	3.701+15	9.258-02	-7.416	2.026-14	34.233	1.054-03	-7.557	2.307-14	34.093			
.0850	11.7647	3.527+15	3.131-03	-8.739	7.546-14	32.806	3.549-03	-8.875	8.553-14	32.670			
.0890	11.2360	3.368+15	9.415-03	-9.935	2.488-13	31.511	1.063-04	-10.066	2.809-13	31.379			
.0930	10.7527	3.224+15	7.911-06	-17.246	2.282-10	24.104	5.494-06	-16.850	1.585-10	24.500			
.0975	10.2564	3.075+15	2.560-07	-18.521	8.118-10	22.726	1.807-07	-18.142	5.730-10	23.105			
.1025	9.7561	2.925+15	5.456-07	-19.342	1.912-09	21.796	3.908-07	-18.980	1.370-09	22.159			
.1075	9.3023	2.789+15	1.037-08	-20.039	3.997-09	20.996	7.557-07	-19.696	2.913-09	21.339			
.1125	8.8889	2.665+15	2.983-10	-26.187	1.259-06	14.750	1.948+10	-25.724	8.224-07	15.212			
.1175	8.5106	2.551+15	3.135-10	-26.241	1.444-06	14.601	1.874+10	-25.682	8.630-07	15.160			
.1220	8.1967	2.457+15	1.292-10	-25.278	6.414-07	15.482	5.279-09	-24.306	2.621-07	16.454			
.1270	7.8740	2.361+15	1.820+11	-28.150	9.792-06	42.523	1.896+11	-28.195	1.020-05	12.478			
.1325	7.5472	2.263+15	2.305+11	-28.407	1.350-05	42.174	2.406+11	-28.453	1.409-05	12.128			
.1375	7.2727	2.180+15	2.364+11	-28.434	1.491-05	42.066	2.425+11	-28.462	1.529-05	12.039			
.1422	7.0323	2.108+15	2.521+11	-28.504	1.700-05	41.924	2.558+11	-28.520	1.725-05	11.908			
.1482	6.7476	2.023+15	2.640+11	-28.554	1.934-05	41.784	2.663+11	-28.563	1.951-05	11.774			
.1547	6.4641	1.938+15	2.416+11	-28.458	1.929-05	41.787	2.485+11	-28.488	1.984-05	11.756			
.1598	6.2578	1.876+15	2.649+11	-28.558	2.256-05	41.616	2.662+11	-28.563	2.267-05	11.611			
.1649	6.0643	1.818+15	2.211+11	-28.361	2.005-05	41.744	2.194+11	-28.353	1.990-05	11.753			
.1730	5.7803	1.733+15	2.510+11	-28.499	2.506-05	41.503	2.493+11	-28.492	2.489-05	11.510			
.1830	5.4645	1.636+15	2.275+11	-28.392	2.541-05	41.487	2.249+11	-28.380	2.512-05	11.500			
.1930	5.1813	1.553+15	2.433+11	-28.465	3.023-05	41.299	2.351+11	-28.428	2.921-05	11.336			
.2015	4.9628	1.488+15	2.234+11	-28.373	3.026-05	41.298	2.156+11	-28.334	2.920-05	11.337			
.2100	4.7619	1.446+15	2.111+11	-28.311	3.105-05	41.270	2.032+11	-28.270	2.989-05	11.311			
.2200	4.5455	1.363+15	1.943+11	-28.221	3.137-05	41.259	1.855+11	-28.171	2.995-05	11.309			
.2300	4.3478	1.303+15	1.776+11	-28.124	3.134-05	41.260	1.697+11	-28.074	2.994-05	11.309			
.2400	4.1667	1.249+15	1.580+11	-27.997	3.036-05	41.294	1.530+11	-27.962	2.940-05	11.329			
.2482	4.0290	1.208+15	1.681+11	-28.064	3.454-05	41.154	1.616+11	-28.021	3.321-05	11.197			
.2557	3.9108	1.172+15	1.641+11	-28.038	3.579-05	41.116	1.581+11	-27.997	3.448-05	11.156			
.2660	3.7594	1.127+15	1.724+11	-28.091	4.069-05	40.976	1.661+11	-28.051	3.920-05	11.017			
.2770	3.6101	1.082+15	1.626+11	-28.028	4.162-05	40.952	1.568+11	-27.988	4.013-05	10.991			
.2870	3.4843	1.045+15	1.718+11	-28.088	4.720-05	40.815	1.652+11	-28.045	4.539-05	10.858			
.2970	3.3670	1.009+15	1.771+11	-28.121	5.211-05	40.708	1.699+11	-28.075	4.999-05	10.753			
.3070	3.2573	9.765+14	1.771+11	-28.121	5.568-05	40.636	1.698+11	-28.075	5.338-05	10.682			
.3170	3.1546	9.457+14	1.722+11	-28.090	5.772-05	40.597	1.656+11	-28.048	5.551-05	10.639			
.3270	3.0581	9.168+14	1.695+11	-28.073	6.046-05	40.546	1.632+11	-28.032	5.821-05	10.588			
.3370	2.9674	8.896+14	1.653+11	-28.046	6.262-05	40.508	1.594+11	-28.006	6.038-05	10.548			
.3480	2.8736	8.615+14	1.629+11	-28.030	6.580-05	40.454	1.573+11	-27.992	6.354-05	10.492			
.3600	2.7778	8.328+14	1.583+11	-27.999	6.843-05	40.412	1.530+11	-27.962	6.614-05	10.449			
.3700	2.7027	8.102+14	3.330+11	-28.806	1.521-04	9.545	3.159+11	-28.749	1.443-04	9.602			
.3800	2.6316	7.889+14	4.193+11	-29.056	2.020-04	9.237	4.239+11	-29.068	2.042-04	9.225			
.3900	2.5641	7.687+14	4.194+11	-29.057	2.128-04	9.180	4.330+11	-29.091	2.197-04	9.146			
.4000	2.5000	7.495+14	3.976+11	-28.999	2.122-04	9.183	4.110+11	-29.035	2.194-04	9.147			
.4200	2.3810	7.138+14	3.530+11	-28.869	2.077-04	9.206	3.635+11	-28.901	2.139-04	9.175			
.4400	2.2727	6.813+14	3.113+11	-28.733	2.010-04	9.242	3.183+11	-28.757	2.056-04	9.218			
.4600	2.1739	6.517+14	2.796+11	-28.616	1.973-04	9.262	2.860+11	-28.641	2.019-04	9.237			
.4800	2.0833	6.246+14	2.474+11	-28.483	1.901-04	9.302	2.504+11	-28.497	1.924-04	9.289			
.5000	2.0000	5.996+14	2.242+11	-28.377	1.870-04	9.321	2.274+11	-28.392	1.896-04	9.305			
.5200	1.9231	5.765+14	2.006+11	-28.256	1.809-04	9.356	2.028+11	-28.268	1.829-04	9.344			
.5400	1.8519	5.552+14	1.803+11	-28.140	1.754-04	9.390	1.818+11	-28.149	1.766-04	9.381			
.5600	1.7857	5.353+14	1.626+11	-28.028	1.701-04	9.423	1.636+11	-28.034	1.711-04	9.417			
.5800	1.7241	5.169+14	1.468+11	-27.917	1.647-04	9.458	1.474+11	-27.921	1.654-04	9.454			
.6050	1.6529	4.955+14	1.297+11	-27.782	1.584-04	9.501	1.300+11	-27.785	1.587-04	9.498			
.6350	1.5748	4.721+14	1.123+11	-27.626	1.510-04	9.552	1.123+11	-27.626	1.510-04	9.552			
.6650	1.5038	4.508+14	9.708+10	-27.468	1.432-04	9.610	9.669+10	-27.463	1.426-04	9.614			
.6950	1.4388	4.314+14	8.551+10	-27.330	1.378-04	9.652	8.530+10	-27.327	1.374-04	9.655			
.7250	1.3793	4.135+14	7.508+10	-27.189	1.316-04	9.702	7.483+10	-27.185	1.312-04	9.705			
.7550	1.3245	3.971+14	6.622+10	-27.052	1.259-04	9.750	6.595+10	-27.048	1.254-04	9.754			
.7850	1.2739	3.819+14	5.861+10	-26.920	1.205-04	9.798	5.833+10	-26.915	1.199-04	9.803			
.8100	1.2346	3.701+14	5.316+10	-26.814	1.163-04	9.836	5.290+10	-26.809	1.158-04	9.841			
.8350	1.1976	3.590+14	5.371+10	-26.825	1.249-04	9.758	5.350+10	-26.821	1.244-04	9.763			
.9000	1.1111	3.331+14	4.511+10	-26.636	1.219-04	9.785	4.554+10	-26.646	1.230-04	9.775			
1.0000	1.0000	2.998+14	3.156+10	-26.244	1.053-04	9.944	3.175+10	-26.254	1.059-04	9.938			
1.2000	.8333	2.498+14	1.679+10	-25.563	8.065-05	10.234	1.683+10	-25.565	8.084-05	10.231			
1.8000	.5556	1.666+14	4.108+09	-24.034	4.440-05	10.882	4.113+09	-24.035	4.445-05	10.880			
2.7000	.3704	1.110+14	9.179+08	-22.407	2.232-05	11.628	9.174+08	-22.406	2.231-05	11.629			
4.0000	.2500	7.495+13	2.053+08	-20.781	1.096-05	12.401	2.050+08	-20.779	1.094-05	12.402			
5.0000	.2000	5.996+13	8.679+07	-19.846	7.238-06	12.851	8.662+07	-19.844	7.223-06	12.853			
6.5000	.1538	4.612+13	3.120+07	-18.735	4.397-06	13.392	3.113+07	-18.733	4.387-06	13.395			



		TEFF = 9500		LOG G = 3.0		TEFF = 9500		LOG G = 3.5		
LAMBDA (MICRON)	1/LAMBDA	NL	F (LAMBDA)	M (LAMBDA)	F (NU)	M (NU)	F (LAMBDA)	M (LAMBDA)	F (NU)	M (NU)
.0515	19.4175	5.821+15	5.532-04	8.143	4.894-21	20.776	6.676-04	7.939	5.906-21	50.572
.0540	18.5185	5.552+15	3.601-03	6.109	3.503-20	48.639	4.195-03	5.943	4.080-20	48.473
.0565	17.6991	5.306+15	2.000-02	4.247	2.130-19	46.679	2.268-02	4.111	2.415-19	46.543
.0587	17.0358	5.107+15	8.067-02	2.733	9.272-19	45.082	8.989-02	2.616	1.033-18	44.965
.0612	16.3399	4.899+15	3.504-01	1.139	4.378-18	43.397	3.847-01	1.037	4.806-18	43.295
.0634	15.7729	4.729+15	1.161-00	-.162	1.557-17	42.020	1.263-00	-.254	1.693-17	41.928
.0671	14.9031	4.468+15	7.293+00	-2.157	1.095-16	39.901	7.842+00	-2.236	1.178-16	39.822
.0705	14.1844	4.252+15	3.319+01	-3.803	5.503-16	38.149	3.544+01	-3.874	5.876-16	38.077
.0736	13.5870	4.073+15	1.164+02	-5.165	2.103-15	36.693	1.237+02	-5.231	2.235-15	36.627
.0770	12.9870	3.893+15	4.082+02	-6.527	8.073-15	35.232	4.321+02	-6.589	8.546-15	35.171
.0810	12.3457	3.701+15	1.547+03	-7.974	3.386-14	33.676	1.632+03	-8.032	3.572-14	33.618
.0850	11.7647	3.527+15	5.128+03	-9.275	1.236-13	32.270	5.393+03	-9.330	1.300-13	32.215
.0890	11.2360	3.368+15	1.512+04	-10.449	3.995-13	30.996	1.586+04	-10.501	4.190-13	30.944
.0930	10.7527	3.224+15	4.544+06	-16.644	1.311-10	24.706	3.567+06	-16.381	1.029-10	24.969
.0975	10.2564	3.075+15	1.526+07	-17.959	4.635-10	23.288	1.237+07	-17.731	3.922-10	23.516
.1025	9.7561	2.925+15	3.323+07	-18.804	1.165-09	22.335	2.708+07	-18.582	9.490-10	22.557
.1075	9.3023	2.789+15	6.504+07	-19.533	2.507-09	21.502	5.370+07	-19.325	2.070-09	21.710
.1125	8.8889	2.665+15	1.103+10	-25.106	4.657-07	15.830	4.731+09	-24.187	1.997-07	16.749
.1175	8.5106	2.551+15	9.606+09	-24.956	4.424-07	15.886	3.730+09	-23.929	1.718-07	16.913
.1220	8.1967	2.457+15	1.971+09	-23.237	9.786-08	17.524	9.016+08	-22.388	4.476-08	18.373
.1270	7.8740	2.361+15	1.800+11	-28.138	9.684-06	12.535	1.535+11	-27.965	8.258-06	12.708
.1325	7.5472	2.263+15	2.393+11	-28.447	1.401-05	12.134	2.253+11	-28.382	1.319-05	12.199
.1375	7.2727	2.180+15	2.396+11	-28.449	1.511-05	12.052	2.263+11	-28.387	1.427-05	12.114
.1422	7.0323	2.108+15	2.521+11	-28.504	1.700-05	11.924	2.397+11	-28.449	1.617-05	11.978
.1482	6.7476	2.023+15	2.636+11	-28.552	1.931-05	11.785	2.551+11	-28.517	1.869-05	11.821
.1547	6.4641	1.938+15	2.543+11	-28.513	2.030-05	11.731	2.591+11	-28.534	2.068-05	11.711
.1598	6.2578	1.876+15	2.677+11	-28.569	2.280-05	11.605	2.691+11	-28.575	2.292-05	11.599
.1649	6.0643	1.818+15	2.186+11	-28.349	1.983-05	11.757	2.172+11	-28.342	1.970-05	11.764
.1730	5.7803	1.733+15	2.515+11	-28.501	2.511-05	11.500	2.567+11	-28.524	2.563-05	11.478
.1830	5.4645	1.638+15	2.270+11	-28.390	2.536-05	11.490	2.318+11	-28.413	2.589-05	11.467
.1930	5.1813	1.553+15	2.347+11	-28.426	2.916-05	11.338	2.382+11	-28.442	2.960-05	11.322
.2015	4.9628	1.488+15	2.159+11	-28.336	2.924-05	11.335	2.198+11	-28.355	2.977-05	11.316
.2100	4.7619	1.426+15	2.038+11	-28.273	2.998-05	11.308	2.076+11	-28.293	3.054-05	11.288
.2200	4.5455	1.363+15	1.846+11	-28.166	2.980-05	11.314	1.853+11	-28.170	2.992-05	11.310
.2300	4.3478	1.303+15	1.693+11	-28.072	2.987-05	11.312	1.694+11	-28.072	2.989-05	11.311
.2400	4.1667	1.249+15	1.556+11	-27.980	2.990-05	11.311	1.596+11	-28.008	3.066-05	11.283
.2482	4.0290	1.208+15	1.636+11	-28.034	3.362-05	11.184	1.678+11	-28.062	3.448-05	11.156
.2557	3.9108	1.172+15	1.604+11	-28.013	3.498-05	11.140	1.647+11	-28.042	3.592-05	11.112
.2660	3.7594	1.127+15	1.686+11	-28.067	3.979-05	11.000	1.734+11	-28.098	4.093-05	10.970
.2770	3.6101	1.082+15	1.594+11	-28.006	4.080-05	10.973	1.638+11	-28.036	4.192-05	10.944
.2870	3.4843	1.045+15	1.672+11	-28.058	4.594-05	10.845	1.715+11	-28.086	4.712-05	10.817
.2970	3.3670	1.009+15	1.715+11	-28.086	5.046-05	10.743	1.753+11	-28.109	5.158-05	10.719
.3070	3.2573	9.765+14	1.712+11	-28.084	5.382-05	10.673	1.747+11	-28.106	5.492-05	10.651
.3170	3.1546	9.457+14	1.671+11	-28.057	5.601-05	10.629	1.706+11	-28.080	5.718-05	10.607
.3270	3.0581	9.168+14	1.646+11	-28.041	5.871-05	10.578	1.679+11	-28.063	5.989-05	10.557
.3370	2.9674	8.896+14	1.608+11	-28.016	6.092-05	10.538	1.639+11	-28.036	6.209-05	10.517
.3480	2.8736	8.615+14	1.586+11	-28.001	6.407-05	10.483	1.615+11	-28.020	6.524-05	10.464
.3600	2.7778	8.328+14	1.542+11	-27.970	6.666-05	10.440	1.569+11	-27.989	6.783-05	10.421
.3700	2.7027	8.102+14	2.975+11	-28.684	1.359-04	9.667	2.795+11	-28.616	1.276-04	9.735
.3800	2.6316	7.889+14	4.156+11	-29.047	2.002-04	9.246	3.960+11	-28.994	1.907-04	9.299
.3900	2.5641	7.687+14	4.356+11	-29.098	2.210-04	9.139	4.314+11	-29.087	2.189-04	9.150
.4000	2.5000	7.495+14	4.144+11	-29.044	2.212-04	9.138	4.117+11	-29.036	2.197-04	9.145
.4200	2.3810	7.138+14	3.671+11	-28.912	2.160-04	9.164	3.669+11	-28.911	2.159-04	9.164
.4400	2.2727	6.813+14	3.203+11	-28.764	2.068-04	9.211	3.194+11	-28.761	2.063-04	9.214
.4600	2.1739	6.517+14	2.889+11	-28.652	2.039-04	9.226	2.901+11	-28.656	2.048-04	9.222
.4800	2.0833	6.246+14	2.509+11	-28.499	1.928-04	9.287	2.496+11	-28.493	1.918-04	9.293
.5000	2.0000	5.996+14	2.290+11	-28.400	1.910-04	9.298	2.297+11	-28.403	1.915-04	9.294
.5200	1.9231	5.765+14	2.040+11	-28.274	1.840-04	9.338	2.046+11	-28.277	1.845-04	9.335
.5400	1.8519	5.552+14	1.828+11	-28.155	1.778-04	9.375	1.834+11	-28.158	1.784-04	9.372
.5600	1.7857	5.353+14	1.644+11	-28.040	1.720-04	9.411	1.650+11	-28.044	1.726-04	9.407
.5800	1.7241	5.169+14	1.481+11	-27.926	1.662-04	9.449	1.487+11	-27.931	1.669-04	9.444
.6050	1.6529	4.955+14	1.306+11	-27.790	1.595-04	9.493	1.311+11	-27.794	1.601-04	9.489
.6350	1.5748	4.721+14	1.128+11	-27.631	1.517-04	9.547	1.133+11	-27.636	1.524-04	9.543
.6650	1.5038	4.508+14	9.681+10	-27.465	1.428-04	9.613	9.688+10	-27.466	1.429-04	9.612
.6950	1.4388	4.314+14	8.568+10	-27.332	1.380-04	9.650	8.613+10	-27.338	1.388-04	9.644
.7250	1.3793	4.135+14	7.516+10	-27.190	1.318-04	9.700	7.557+10	-27.196	1.325-04	9.694
.7550	1.3245	3.971+14	6.625+10	-27.053	1.260-04	9.749	6.662+10	-27.059	1.267-04	9.743
.7850	1.2739	3.819+14	5.861+10	-26.920	1.205-04	9.798	5.896+10	-26.926	1.212-04	9.791
.8100	1.2346	3.701+14	5.316+10	-26.814	1.163-04	9.836	5.349+10	-26.821	1.171-04	9.829
.8350	1.1976	3.590+14	5.347+10	-26.820	1.244-04	9.763	5.362+10	-26.823	1.247-04	9.760
.9000	1.1111	3.331+14	4.582+10	-26.653	1.238-04	9.768	4.596+10	-26.656	1.242-04	9.765
1.0000	1.0000	2.998+14	3.194+10	-26.261	1.065-04	9.931	3.207+10	-26.265	1.070-04	9.927
1.2000	.8333	2.498+14	1.693+10	-25.572	8.132-05	10.225	1.702+10	-25.577	8.175-05	10.219
1.6000	.5556	1.666+14	4.138+09	-24.042	4.472-05	10.874	4.161+09	-24.048	4.497-05	10.868
2.0000	.3704	1.110+14	9.218+08	-22.412	2.242-05	11.624	9.261+08	-22.417	2.252-05	11.619
4.0000	.2500	7.495+13	2.058+08	-20.784	1.098-05	12.398	2.066+08	-20.788	1.103-05	12.394
5.0000	.2000	5.996+13	8.689+07	-19.847	7.246-06	12.850	8.721+07	-19.851	7.273-06	12.846
6.5000	.1538	4.612+13	3.121+07	-18.736	4.398-06	13.392	3.131+07	-18.739	4.413-06	13.388



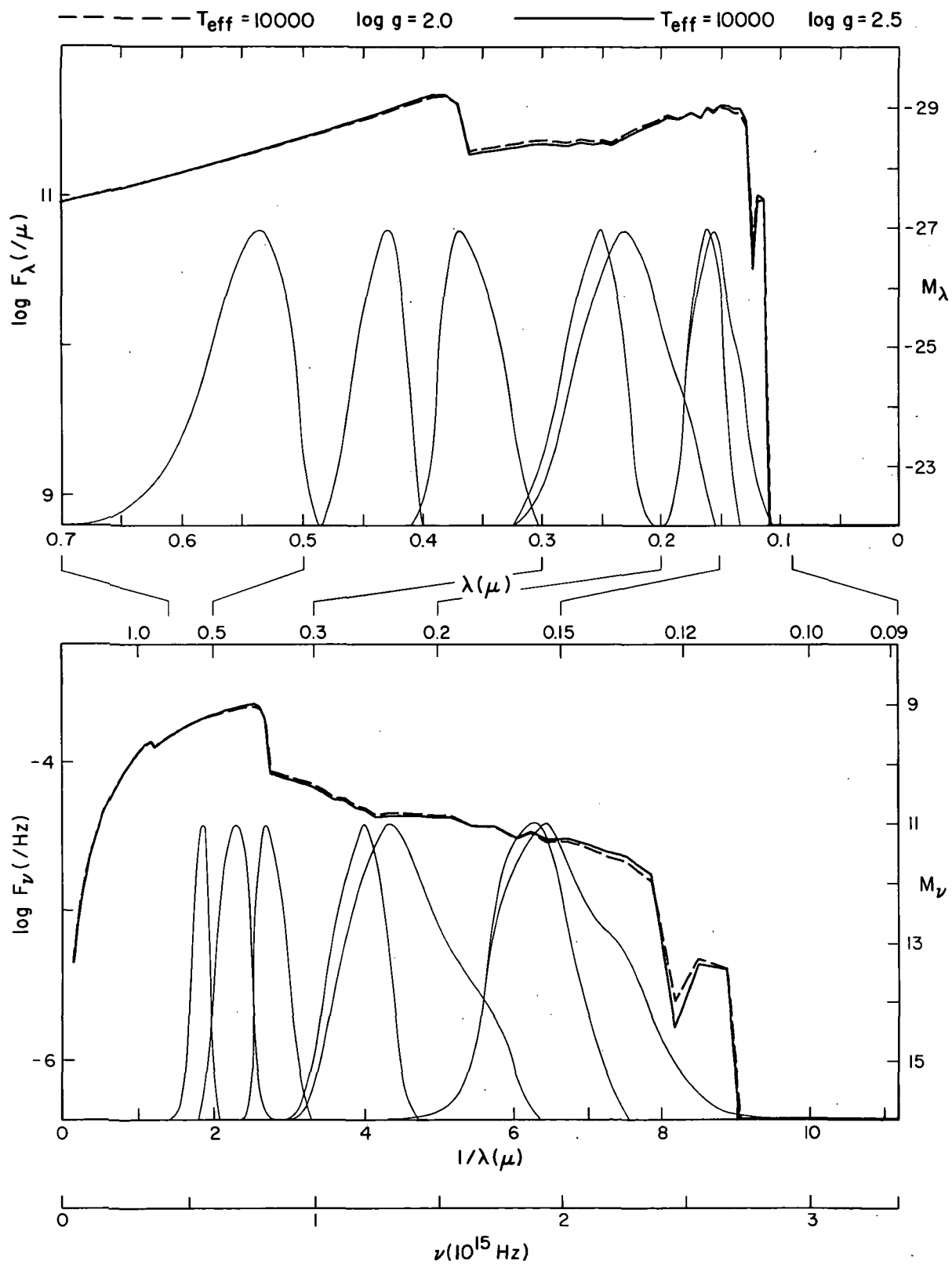
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TEFF = 9500

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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.6515	19.4175	5.821+15	6.643-04	7.944	5.877-21	50.577	1.011-03	7.488	8.944-21	50.121
.6540	18.5185	5.552+15	3.985-03	5.999	3.876-20	48.529	5.914-03	5.570	5.752-20	48.100
.6565	17.6991	5.306+15	2.080-02	4.205	2.215-19	46.637	3.021-02	3.800	3.217-19	46.231
.6587	17.0358	5.107+15	8.066-02	2.733	9.271-19	45.082	1.152-01	2.346	1.324-18	44.695
.6612	16.3399	4.899+15	3.397-01	1.172	4.244-18	43.431	4.769-01	.804	5.958-18	43.062
.6634	15.7729	4.729+15	1.105+00	-1.108	1.482-17	42.073	1.531+00	-.462	2.053-17	41.719
.6671	14.9031	4.468+15	6.818+00	-2.084	1.024-16	39.974	9.260+00	-2.417	1.391-16	39.642
.6705	14.1844	4.252+15	3.078+01	-3.721	5.103-16	38.230	4.116+01	-4.036	6.824-16	37.915
.6736	13.5870	4.073+15	1.077+02	-5.081	1.946-15	36.777	1.421+02	-5.381	2.568-15	36.476
.6770	12.9870	3.893+15	3.772+02	-6.441	7.460-15	35.318	4.917+02	-6.729	9.724-15	35.030
.6810	12.3457	3.701+15	1.431+03	-7.889	3.132-14	33.761	1.841+03	-8.163	4.029-14	33.487
.6850	11.7647	3.527+15	4.754+03	-9.193	1.146-13	32.352	6.042+03	-9.453	1.456-13	32.092
.6890	11.2360	3.368+15	1.405+04	-10.369	3.712-13	31.076	1.767+04	-10.618	4.669-13	30.827
.6930	10.7527	3.224+15	2.393+06	-15.947	6.904-11	25.402	2.014+06	-15.760	5.810-11	25.589
.6975	10.2564	3.075+15	8.621+06	-17.339	2.734-10	23.908	7.455+06	-17.181	2.364-10	24.066
.7025	9.7561	2.925+15	1.904+07	-18.199	6.673-10	22.939	1.651+07	-18.044	5.786-10	23.094
.7075	9.3023	2.789+15	3.840+07	-18.961	1.480-09	22.074	3.367+07	-18.818	1.298-09	22.217
.7125	8.8889	2.665+15	1.598+09	-23.009	6.746-08	17.927	6.483+08	-22.029	2.737-08	18.907
.7175	8.5106	2.551+15	1.278+09	-22.766	5.886-08	18.076	6.685+08	-22.063	3.079-08	18.779
.7220	8.1967	2.457+15	6.606+08	-22.050	3.280-08	18.710	6.017+08	-21.948	2.987-08	18.812
.7270	7.8740	2.361+15	1.145+11	-27.647	6.160-06	13.026	7.625+10	-27.206	4.102-06	13.467
.7325	7.5472	2.263+15	1.978+11	-28.241	1.158-05	12.340	1.639+11	-28.036	9.598-06	12.545
.7375	7.2727	2.180+15	2.025+11	-28.266	1.277-05	12.234	1.744+11	-28.104	1.100-05	12.397
.7422	7.0323	2.108+15	2.180+11	-28.346	1.470-05	12.081	1.929+11	-28.213	1.301-05	12.214
.7482	6.7476	2.023+15	2.392+11	-28.447	1.752-05	11.891	2.199+11	-28.356	1.611-05	11.982
.7547	6.4641	1.938+15	2.622+11	-28.547	2.093-05	11.698	2.654+11	-28.560	2.119-05	11.685
.7598	6.2578	1.876+15	2.691+11	-28.575	2.292-05	11.599	2.685+11	-28.572	2.287-05	11.602
.7649	6.0643	1.818+15	2.136+11	-28.324	1.937-05	11.782	2.083+11	-28.297	1.889-05	11.809
.7730	5.7803	1.733+15	2.638+11	-28.553	2.634-05	11.449	2.740+11	-28.594	2.735-05	11.407
.7830	5.4645	1.638+15	2.380+11	-28.441	2.659-05	11.438	2.460+11	-28.477	2.748-05	11.402
.7930	5.1813	1.553+15	2.444+11	-28.470	3.037-05	11.294	2.539+11	-28.512	3.155-05	11.253
.8015	4.9628	1.488+15	2.262+11	-28.386	3.064-05	11.284	2.352+11	-28.429	3.185-05	11.242
.8100	4.7619	1.428+15	2.136+11	-28.324	3.142-05	11.257	2.215+11	-28.363	3.258-05	11.218
.8200	4.5455	1.363+15	1.864+11	-28.176	3.009-05	11.304	1.877+11	-28.184	3.030-05	11.296
.8300	4.3478	1.303+15	1.692+11	-28.071	2.986-05	11.312	1.706+11	-28.080	3.010-05	11.303
.8400	4.1667	1.246+15	1.644+11	-28.040	3.159-05	11.251	1.719+11	-28.088	3.303-05	11.203
.8482	4.0290	1.208+15	1.737+11	-28.099	3.569-05	11.119	1.829+11	-28.156	3.758-05	11.063
.8557	3.9108	1.172+15	1.706+11	-28.080	3.721-05	11.073	1.796+11	-28.136	3.917-05	11.018
.8660	3.7594	1.127+15	1.799+11	-28.138	4.246-05	10.930	1.898+11	-28.196	4.480-05	10.872
.8770	3.6101	1.082+15	1.695+11	-28.073	4.338-05	10.907	1.782+11	-28.127	4.561-05	10.852
.8870	3.4843	1.045+15	1.774+11	-28.122	4.874-05	10.780	1.867+11	-28.178	5.130-05	10.725
.8970	3.3670	1.009+15	1.807+11	-28.142	5.317-05	10.686	1.894+11	-28.193	5.573-05	10.635
.9070	3.2573	9.765+14	1.798+11	-28.137	5.653-05	10.619	1.879+11	-28.185	5.907-05	10.572
.9170	3.1546	9.457+14	1.756+11	-28.111	5.886-05	10.575	1.834+11	-28.158	6.147-05	10.528
.9270	3.0581	9.168+14	1.726+11	-28.093	6.156-05	10.527	1.801+11	-28.139	6.424-05	10.481
.9370	2.9674	8.896+14	1.683+11	-28.065	6.376-05	10.489	1.753+11	-28.109	6.641-05	10.444
.9480	2.8736	8.615+14	1.656+11	-28.048	6.690-05	10.437	1.721+11	-28.089	6.952-05	10.395
.9600	2.7778	8.328+14	1.606+11	-28.014	6.943-05	10.396	1.665+11	-28.054	7.198-05	10.357
.9700	2.7027	8.102+14	2.617+11	-28.545	1.195-04	9.807	2.614+11	-28.543	1.194-04	9.808
.9800	2.6316	7.889+14	3.711+11	-28.924	1.787-04	9.369	3.494+11	-28.858	1.683-04	9.435
.9900	2.5641	7.687+14	4.213+11	-29.061	2.137-04	9.175	4.076+11	-29.026	2.068-04	9.211
1.0000	2.5000	7.495+14	4.043+11	-29.017	2.158-04	9.165	3.936+11	-29.088	2.101-04	9.194
1.0200	2.3810	7.138+14	3.636+11	-28.902	2.139-04	9.174	3.587+11	-28.887	2.111-04	9.189
1.0400	2.2727	6.813+14	3.160+11	-28.749	2.041-04	9.226	3.114+11	-28.733	2.011-04	9.241
1.0600	2.1739	6.517+14	2.898+11	-28.655	2.045-04	9.223	2.884+11	-28.650	2.036-04	9.228
1.0800	2.0833	6.246+14	2.470+11	-28.482	1.898-04	9.304	2.439+11	-28.468	1.874-04	9.318
1.1000	2.0000	5.996+14	2.296+11	-28.402	1.915-04	9.295	2.290+11	-28.400	1.910-04	9.298
1.1200	1.9231	5.765+14	2.047+11	-28.278	1.846-04	9.334	2.044+11	-28.276	1.844-04	9.336
1.1400	1.8519	5.552+14	1.836+11	-28.160	1.786-04	9.370	1.836+11	-28.160	1.786-04	9.370
1.1600	1.7857	5.353+14	1.653+11	-28.046	1.729-04	9.405	1.655+11	-28.047	1.731-04	9.404
1.1800	1.7241	5.169+14	1.491+11	-27.934	1.673-04	9.441	1.495+11	-27.937	1.678-04	9.438
1.2000	1.6529	4.955+14	1.315+11	-27.797	1.606-04	9.486	1.321+11	-27.802	1.613-04	9.481
1.2200	1.5748	4.721+14	1.138+11	-27.640	1.531-04	9.538	1.143+11	-27.645	1.537-04	9.533
1.2400	1.5038	4.508+14	9.686+10	-27.465	1.429-04	9.613	9.699+10	-27.467	1.431-04	9.611
1.2600	1.4388	4.314+14	8.662+10	-27.344	1.396-04	9.638	8.725+10	-27.352	1.406-04	9.630
1.2800	1.3793	4.135+14	7.602+10	-27.202	1.333-04	9.688	7.662+10	-27.211	1.343-04	9.680
1.3000	1.3245	3.971+14	6.705+10	-27.066	1.275-04	9.736	6.763+10	-27.075	1.286-04	9.727
1.3200	1.2739	3.819+14	5.937+10	-26.934	1.220-04	9.784	5.992+10	-26.944	1.232-04	9.774
1.3400	1.2346	3.701+14	5.387+10	-26.828	1.179-04	9.821	5.440+10	-26.839	1.191-04	9.811
1.3600	1.1976	3.590+14	5.382+10	-26.827	1.252-04	9.756	5.435+10	-26.838	1.264-04	9.746
1.3800	1.1611	3.481+14	4.599+10	-26.657	1.243-04	9.764	4.598+10	-26.656	1.242-04	9.764
1.4000	1.1260	3.376+14	3.216+10	-26.268	1.073-04	9.924	3.225+10	-26.271	1.076-04	9.921
1.4200	1.0920	3.273+14	1.711+10	-25.583	8.218-05	10.213	1.723+10	-25.591	8.276-05	10.205
1.4400	1.0596	3.180+14	4.186+09	-24.054	4.524-05	10.861	4.218+09	-24.063	4.559-05	10.853
1.4600	1.0284	3.096+14	9.304+08	-22.422	2.262-05	11.614	9.362+08	-22.428	2.277-05	11.607
1.4800	1.0000	3.020+14	2.074+08	-20.792	1.107-05	12.390	2.085+08	-20.798	1.113-05	12.384
1.5000	0.9756	2.956+13	8.752+07	-19.855	7.298-06	12.842	8.796+07	-19.861	7.335-06	12.836
1.5200	0.9538	2.896+13	3.142+07	-18.743	4.428-06	13.384	3.157+07	-18.748	4.449-06	13.379



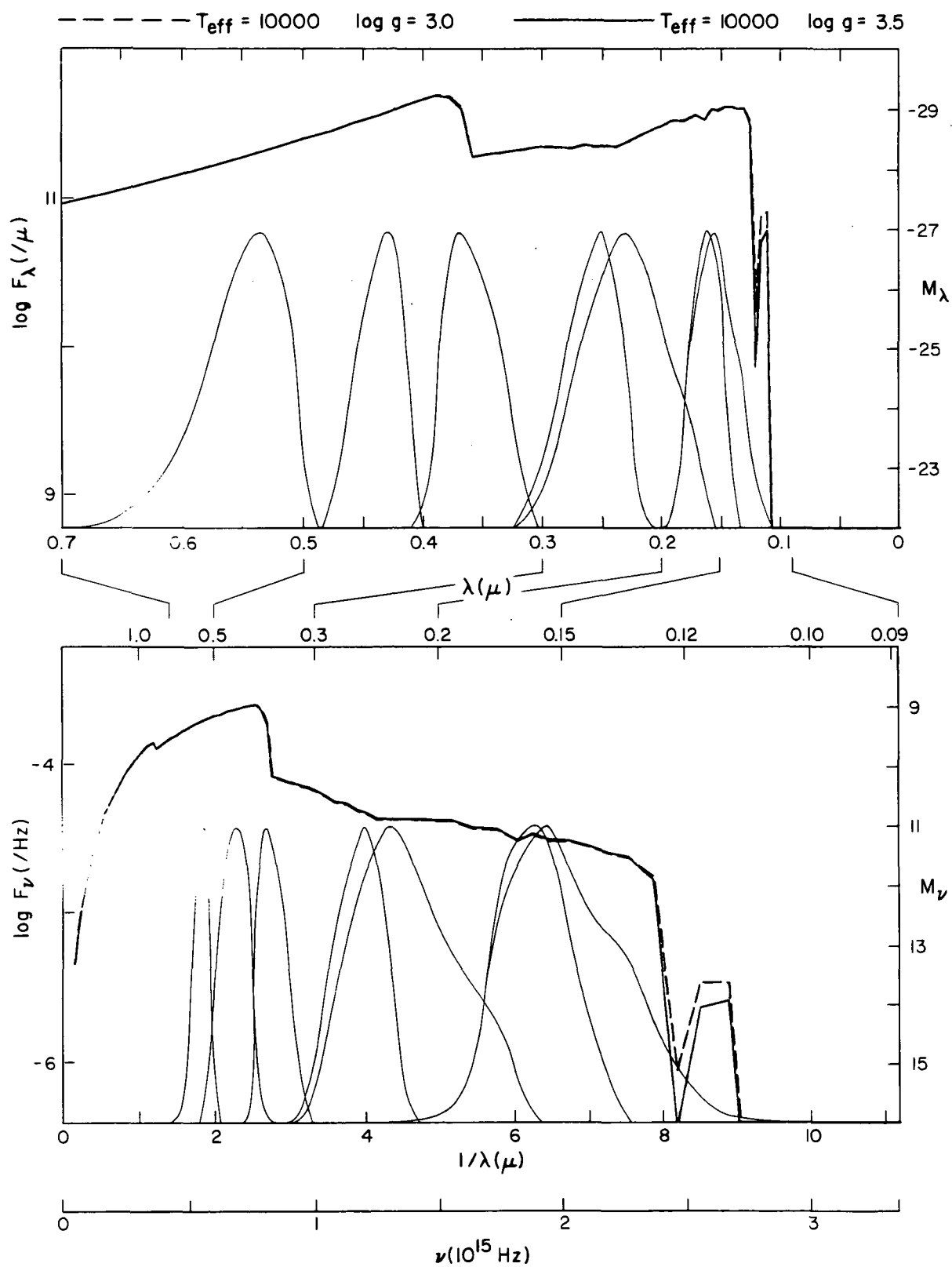
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LOG G = 4.0

TEFF = 10000

LOG G = 2.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	8.345-03	5.196	7.383-20	47.829	9.602-03	5.044	8.495-20	47.677
.0540	18.5185	5.552+15	4.741-02	3.310	4.611-19	45.840	5.560-02	3.137	5.408-19	45.667
.0565	17.6991	5.306+15	2.317-01	1.588	2.467-18	44.019	2.763-01	1.397	2.942-18	43.828
.0587	17.0358	5.107+15	8.375-01	.193	9.626-18	42.541	1.014+00	-.015	1.165-17	42.334
.0612	16.3399	4.899+15	3.254+00	-1.281	4.065-17	40.977	3.982+00	-1.500	4.975-17	40.758
.0634	15.7729	4.729+15	9.831+00	-2.481	1.318-16	39.700	1.213+01	-2.710	1.626-16	39.472
.0671	14.9031	4.468+15	5.372+01	-4.325	8.068-16	37.733	6.689+01	-4.563	1.005-15	37.495
.0705	14.1844	4.252+15	2.185+02	-5.849	3.623-15	36.102	2.731+02	-6.091	4.528-15	35.860
.0736	13.5870	4.073+15	6.995+02	-7.112	1.264-14	34.746	8.753+02	-7.355	1.582-14	34.502
.0770	12.9870	3.893+15	2.242+03	-8.377	4.434-14	33.383	2.802+03	-8.619	5.542-14	33.141
.0810	12.3457	3.701+15	7.737+03	-9.721	1.693-13	31.928	9.641+03	-9.960	2.110-13	31.689
.0850	11.7647	3.527+15	2.360+04	-10.932	5.688-13	30.613	2.927+04	-11.166	7.054-13	30.379
.0890	11.2360	3.368+15	6.461+04	-12.026	1.707-12	29.419	7.971+04	-12.254	2.106-12	29.191
.0930	10.7527	3.224+15	3.813+07	-18.953	1.100+09	28.396	2.667+07	-18.565	7.694-10	22.785
.0975	10.2564	3.075+15	1.699+08	-20.575	5.387+09	26.672	9.533+07	-19.948	3.023+09	21.299
.1025	9.7561	2.925+15	3.235+08	-21.275	1.134+08	25.864	1.917+08	-20.707	6.718+09	20.432
.1075	9.3023	2.789+15	5.994+08	-21.944	2.311+08	24.091	3.578+08	-21.384	1.379+08	19.651
.1125	8.8889	2.665+15	9.841+10	-27.483	4.155+06	23.454	9.627+10	-27.459	4.064+06	13.478
.1175	8.5106	2.551+15	1.052+11	-27.555	4.845+06	23.287	9.569+10	-27.452	4.407+06	13.390
.1220	8.1967	2.457+15	4.980+10	-26.743	2.472+06	24.017	3.312+10	-26.300	1.644+06	14.460
.1270	7.8740	2.361+15	2.986+11	-28.688	1.606+05	21.985	3.282+11	-28.790	1.766+05	11.883
.1325	7.5472	2.263+15	3.673+11	-28.913	2.151+05	21.668	3.977+11	-28.999	2.329+05	11.582
.1375	7.2727	2.180+15	3.738+11	-28.932	2.357+05	21.569	3.974+11	-28.998	2.506+05	11.502
.1422	7.0323	2.108+15	3.953+11	-28.992	2.666+05	21.435	4.138+11	-29.042	2.791+05	11.386
.1482	6.7476	2.023+15	4.065+11	-29.023	2.978+05	21.315	4.193+11	-29.056	3.072+05	11.281
.1547	6.4641	1.938+15	3.684+11	-28.916	2.941+05	21.329	3.814+11	-28.953	3.045+05	11.291
.1598	6.2578	1.876+15	3.997+11	-29.004	3.405+05	21.170	4.046+11	-29.018	3.446+05	11.157
.1649	6.0643	1.818+15	3.426+11	-28.837	3.107+05	21.269	3.441+11	-28.842	3.121+05	11.264
.1730	5.7803	1.733+15	3.735+11	-28.931	3.729+05	21.071	3.712+11	-28.924	3.706+05	11.078
.1830	5.4645	1.638+15	3.389+11	-28.825	3.786+05	21.055	3.359+11	-28.816	3.752+05	11.064
.1930	5.1813	1.553+15	3.581+11	-28.885	4.449+05	20.879	3.464+11	-28.849	4.304+05	10.915
.2015	4.9628	1.488+15	3.286+11	-28.792	4.450+05	20.879	3.171+11	-28.753	4.295+05	10.918
.2100	4.7619	1.428+15	3.104+11	-28.730	4.566+05	20.851	2.986+11	-28.688	4.392+05	10.893
.2200	4.5455	1.363+15	2.867+11	-28.644	4.629+05	20.836	2.739+11	-28.594	4.422+05	10.886
.2300	4.3476	1.303+15	2.624+11	-28.547	4.630+05	20.836	2.510+11	-28.499	4.429+05	10.884
.2400	4.1667	1.249+15	2.335+11	-28.421	4.486+05	20.870	2.254+11	-28.382	4.331+05	10.909
.2482	4.0290	1.208+15	2.440+11	-28.468	5.014+05	20.750	2.333+11	-28.420	4.794+05	10.798
.2557	3.9108	1.172+15	2.380+11	-28.441	5.191+05	20.712	2.278+11	-28.394	4.968+05	10.760
.2660	3.7594	1.127+15	2.464+11	-28.479	5.815+05	20.589	2.352+11	-28.429	5.551+05	10.639
.2770	3.6101	1.082+15	2.320+11	-28.414	5.938+05	20.566	2.217+11	-28.364	5.674+05	10.615
.2870	3.4843	1.045+15	2.391+11	-28.446	6.569+05	20.456	2.275+11	-28.392	6.251+05	10.510
.2970	3.3670	1.009+15	2.425+11	-28.462	7.135+05	20.366	2.301+11	-28.405	6.770+05	10.423
.3070	3.2573	9.765+14	2.400+11	-28.451	7.545+05	20.306	2.275+11	-28.392	7.152+05	10.364
.3170	3.1546	9.457+14	2.311+11	-28.409	7.746+05	20.277	2.195+11	-28.354	7.358+05	10.333
.3270	3.0581	9.168+14	2.254+11	-28.382	8.039+05	20.237	2.143+11	-28.328	7.644+05	10.292
.3370	2.9674	8.896+14	2.181+11	-28.347	8.262+05	20.207	2.077+11	-28.294	7.868+05	10.260
.3480	2.8736	8.615+14	2.128+11	-28.320	8.596+05	20.164	2.028+11	-28.268	8.192+05	10.216
.3600	2.7778	8.328+14	2.050+11	-28.279	8.862+05	20.131	1.956+11	-28.228	8.456+05	10.182
.3700	2.7027	8.102+14	4.335+11	-29.092	1.980+04	9.259	4.306+11	-29.085	1.966+04	9.266
.3800	2.6316	7.889+14	4.836+11	-29.211	2.329+04	9.082	4.959+11	-29.238	2.389+04	9.055
.3900	2.5641	7.687+14	4.753+11	-29.192	2.411+04	9.044	4.944+11	-29.235	2.508+04	9.002
.4000	2.5000	7.495+14	4.488+11	-29.130	2.395+04	9.052	4.665+11	-29.172	2.490+04	9.010
.4200	2.3810	7.138+14	3.973+11	-28.998	2.338+04	9.078	4.108+11	-29.034	2.417+04	9.042
.4400	2.2727	6.813+14	3.504+11	-28.861	2.263+04	9.113	3.601+11	-28.891	2.325+04	9.084
.4600	2.1739	6.517+14	3.135+11	-28.741	2.213+04	9.138	3.215+11	-28.768	2.269+04	9.110
.4800	2.0833	6.246+14	2.778+11	-28.609	2.135+04	9.177	2.825+11	-28.628	2.171+04	9.158
.5000	2.0000	5.996+14	2.504+11	-28.497	2.088+04	9.201	2.546+11	-28.515	2.123+04	9.183
.5200	1.9231	5.765+14	2.239+11	-28.375	2.019+04	9.237	2.269+11	-28.390	2.047+04	9.222
.5400	1.8519	5.552+14	2.010+11	-28.258	1.955+04	9.272	2.031+11	-28.269	1.975+04	9.261
.5600	1.7857	5.353+14	1.810+11	-28.144	1.893+04	9.307	1.825+11	-28.153	1.909+04	9.298
.5800	1.7241	5.169+14	1.633+11	-28.032	1.832+04	9.342	1.643+11	-28.039	1.844+04	9.336
.6050	1.6529	4.955+14	1.441+11	-27.897	1.759+04	9.387	1.446+11	-27.900	1.765+04	9.383
.6350	1.5748	4.721+14	1.246+11	-27.739	1.676+04	9.439	1.247+11	-27.740	1.677+04	9.439
.6650	1.5038	4.508+14	1.079+11	-27.583	1.592+04	9.495	1.075+11	-27.579	1.586+04	9.499
.6950	1.4388	4.314+14	9.465+10	-27.440	1.525+04	9.542	9.441+10	-27.438	1.521+04	9.545
.7250	1.3793	4.135+14	8.302+10	-27.298	1.456+04	9.592	8.271+10	-27.294	1.450+04	9.596
.7550	1.3245	3.971+14	7.313+10	-27.160	1.390+04	9.642	7.278+10	-27.155	1.384+04	9.647
.7850	1.2739	3.819+14	6.466+10	-27.027	1.329+04	9.691	6.430+10	-27.021	1.322+04	9.697
.8100	1.2346	3.701+14	5.856+10	-26.919	1.282+04	9.731	5.820+10	-26.912	1.274+04	9.737
.8350	1.1976	3.590+14	6.013+10	-26.948	1.398+04	9.636	6.052+10	-26.955	1.408+04	9.629
.9000	1.1111	3.331+14	4.850+10	-26.714	1.310+04	9.706	4.905+10	-26.727	1.325+04	9.694
1.0000	1.0000	2.998+14	3.389+10	-26.325	1.130+04	9.867	3.413+10	-26.333	1.138+04	9.859
1.2000	.8333	2.498+14	1.799+10	-25.638	8.641-05	10.159	1.802+10	-25.639	8.656-05	10.157
1.6000	.5556	1.666+14	4.357+09	-24.098	4.709-05	10.818	4.357+09	-24.098	4.709-05	10.818
2.7000	.3704	1.110+14	9.690+08	-22.466	2.356-05	11.569	9.666+08	-22.463	2.350-05	11.572
4.0000	.2500	7.495+13	2.163+08	-20.838	1.154-05	12.344	2.154+08	-20.833	1.150-05	12.349
5.0000	.2000	5.996+13	9.135+07	-19.902	7.618-06	12.795	9.093+07	-19.897	7.583-06	12.800
6.5000	.1538	4.612+13	3.284+07	-18.791	4.628-06	13.336	3.267+07	-18.785	4.604-06	13.342





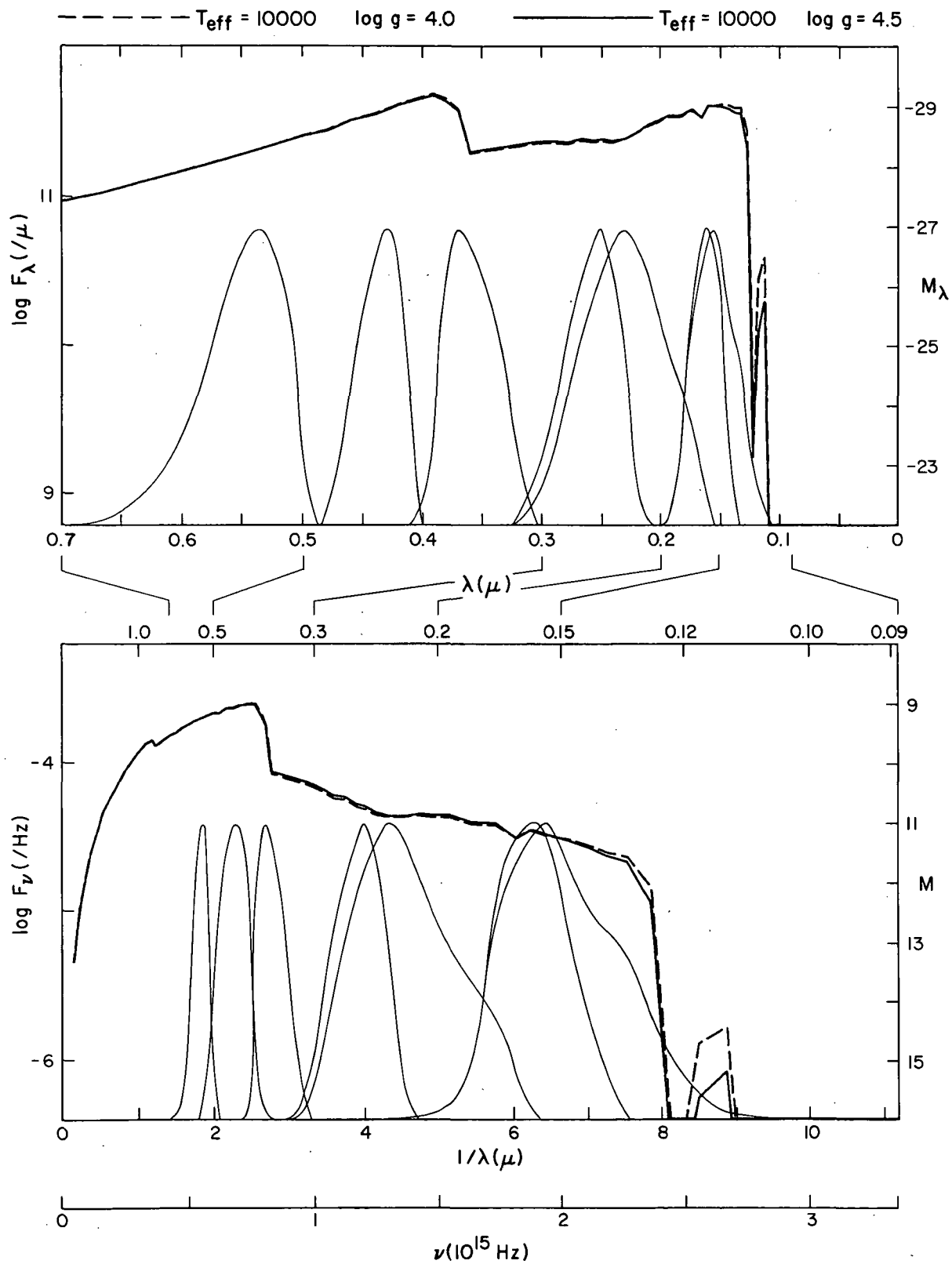
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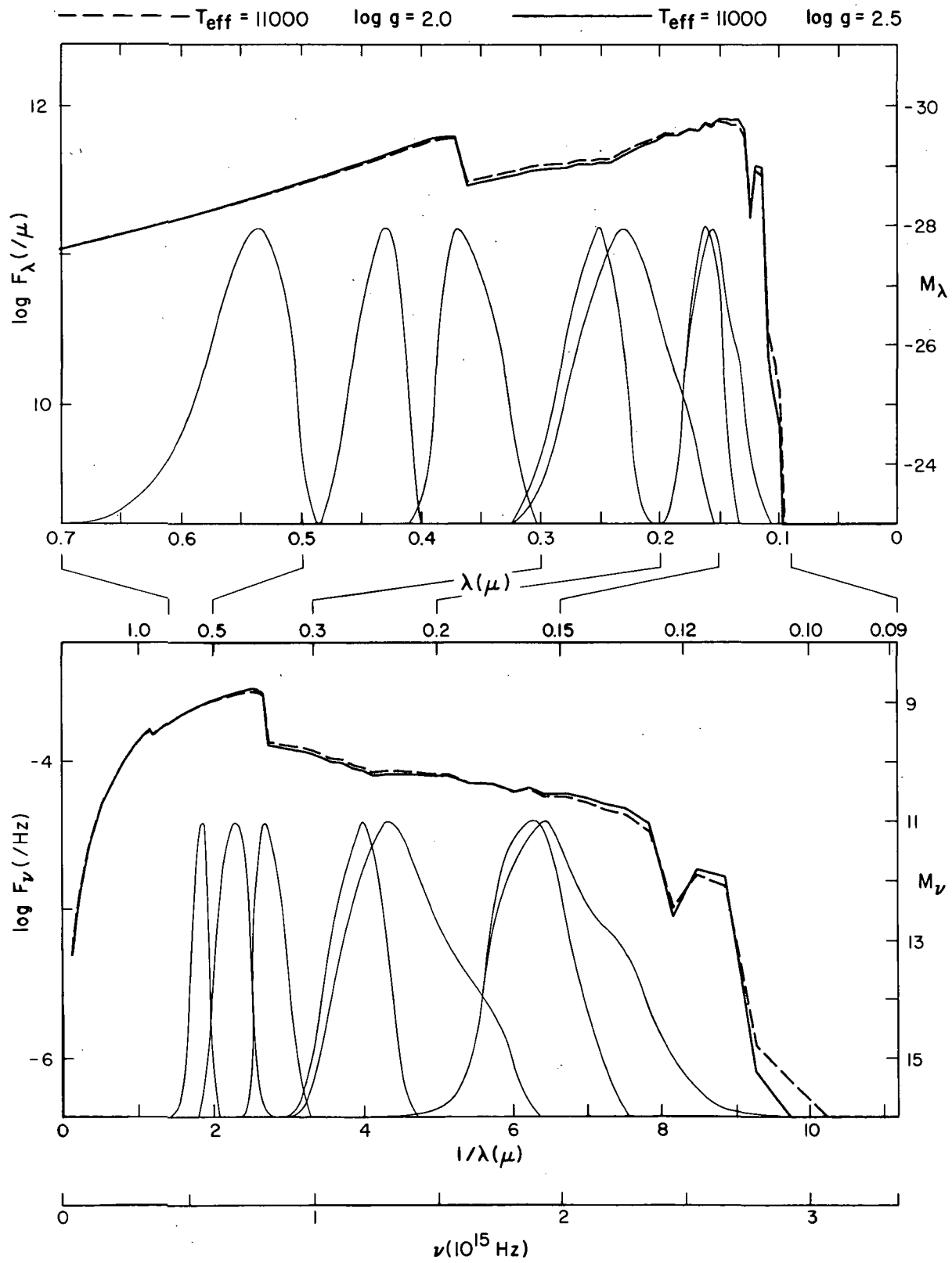
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LOG G = 3.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	1.283-02	4.729	1.135-19	47.362	1.606-02	4.486	1.421-19	47.119
.0540	18.5185	5.552+15	7.428-02	2.823	7.225-19	45.353	9.148-02	2.597	8.898-19	45.127
.0565	17.6991	5.306+15	3.688-01	1.083	3.927-18	43.515	4.485-01	.871	4.776-18	43.302
.0587	17.0358	5.107+15	1.352-00	-.327	1.554-17	42.021	1.629-00	-.530	1.872-17	41.819
.0612	16.3399	4.899+15	5.291-00	-1.809	6.610-17	40.449	6.322-00	-2.002	7.898-17	40.256
.0634	15.7729	4.729+15	1.606-01	-3.014	2.153-16	39.167	1.908-01	-3.201	2.558-16	38.980
.0671	14.9031	4.468+15	8.793-01	-4.860	1.321-15	37.198	1.035-02	-5.037	1.554-15	37.021
.0705	14.1844	4.252+15	3.563-02	-6.380	5.907-15	35.572	4.163-02	-6.549	6.902-15	35.403
.0736	13.5870	4.073+15	1.133-03	-7.636	2.047-14	34.222	1.316-03	-7.798	2.378-14	34.060
.0770	12.9870	3.893+15	3.599-03	-8.890	7.118-14	32.869	4.155-03	-9.046	8.217-14	32.713
.0810	12.3457	3.701+15	1.226-04	-10.221	2.683-13	31.428	1.407-04	-10.371	3.079-13	31.279
.0850	11.7647	3.527+15	3.689-04	-11.417	8.890-13	30.128	4.207-04	-11.560	1.014-12	29.985
.0890	11.2360	3.368+15	9.957-04	-12.495	2.631-12	28.950	1.129-05	-12.632	2.983-12	28.813
.0930	10.7527	3.224+15	2.111-07	-18.311	6.090-10	23.038	1.737-07	-18.099	5.011-10	23.250
.0975	10.2564	3.075+15	7.394-07	-19.672	2.345-09	21.575	6.215-07	-19.484	1.971-09	21.763
.1025	9.7561	2.925+15	1.508-08	-20.446	5.285-09	20.692	1.276-08	-20.265	4.472-09	20.874
.1075	9.3023	2.789+15	2.820-08	-21.126	1.087-08	19.909	2.411-08	-20.955	9.294-09	20.080
.1125	8.8889	2.665+15	8.347-10	-27.304	3.524-06	13.632	6.284-10	-26.996	2.653-06	13.941
.1175	8.5106	2.551+15	7.624-10	-27.205	3.511-06	13.636	5.145-10	-26.778	2.369-06	14.063
.1220	8.1967	2.457+15	1.781-10	-25.627	8.842-07	15.134	7.476-09	-24.684	3.712-07	16.076
.1270	7.8740	2.361+15	3.340-11	-28.809	1.797-05	11.864	3.175-11	-28.754	1.708-05	11.919
.1325	7.5472	2.263+15	4.115-11	-29.036	2.410-05	11.545	4.127-11	-29.039	2.417-05	11.542
.1375	7.2727	2.180+15	4.070-11	-29.024	2.567-05	11.477	4.074-11	-29.025	2.569-05	11.475
.1422	7.0323	2.108+15	4.205-11	-29.059	2.836-05	11.368	4.206-11	-29.060	2.837-05	11.368
.1482	6.7476	2.023+15	4.234-11	-29.067	3.102-05	11.271	4.238-11	-29.068	3.105-05	11.270
.1547	6.4641	1.938+15	3.898-11	-28.977	3.112-05	11.267	3.980-11	-29.000	3.177-05	11.245
.1598	6.2578	1.876+15	4.066-11	-29.023	3.463-05	11.151	4.094-11	-29.030	3.487-05	11.144
.1649	6.0643	1.818+15	3.439-11	-28.841	3.119-05	11.265	3.442-11	-28.842	3.122-05	11.264
.1730	5.7803	1.733+15	3.708-11	-28.923	3.702-05	11.079	3.745-11	-28.934	3.739-05	11.068
.1830	5.4645	1.638+15	3.358-11	-28.815	3.751-05	11.065	3.395-11	-28.827	3.792-05	11.053
.1930	5.1813	1.553+15	3.411-11	-28.832	4.238-05	10.932	3.418-11	-28.834	4.247-05	10.930
.2015	4.9628	1.488+15	3.125-11	-28.737	4.232-05	10.934	3.137-11	-28.741	4.249-05	10.929
.2100	4.7619	1.428+15	2.943-11	-28.672	4.329-05	10.909	2.956-11	-28.677	4.348-05	10.904
.2200	4.5455	1.363+15	2.685-11	-28.572	4.335-05	10.908	2.672-11	-28.567	4.314-05	10.913
.2300	4.3478	1.303+15	2.465-11	-28.480	4.350-05	10.904	2.455-11	-28.475	4.332-05	10.908
.2400	4.1667	1.249+15	2.242-11	-28.377	4.308-05	10.914	2.271-11	-28.391	4.363-05	10.900
.2482	4.0290	1.208+15	2.304-11	-28.406	4.734-05	10.812	2.327-11	-28.417	4.782-05	10.801
.2557	3.9108	1.172+15	2.253-11	-28.382	4.914-05	10.771	2.277-11	-28.393	4.966-05	10.760
.2660	3.7594	1.127+15	2.323-11	-28.415	5.483-05	10.653	2.346-11	-28.426	5.537-05	10.642
.2770	3.6101	1.082+15	2.192-11	-28.352	5.610-05	10.628	2.215-11	-28.363	5.669-05	10.616
.2870	3.4843	1.045+15	2.242-11	-28.377	6.160-05	10.526	2.260-11	-28.385	6.209-05	10.517
.2970	3.3670	1.009+15	2.261-11	-28.386	6.653-05	10.443	2.271-11	-28.391	6.682-05	10.438
.3070	3.2573	9.765+14	2.233-11	-28.372	7.020-05	10.384	2.241-11	-28.376	7.045-05	10.380
.3170	3.1546	9.457+14	2.158-11	-28.335	7.234-05	10.352	2.168-11	-28.340	7.267-05	10.347
.3270	3.0581	9.168+14	2.107-11	-28.309	7.515-05	10.310	2.116-11	-28.314	7.547-05	10.306
.3370	2.9674	8.896+14	2.043-11	-28.276	7.739-05	10.278	2.052-11	-28.280	7.773-05	10.273
.3480	2.8736	8.615+14	1.996-11	-28.250	8.063-05	10.234	2.004-11	-28.255	8.095-05	10.229
.3600	2.7778	8.328+14	1.926-11	-28.212	8.326-05	10.199	1.933-11	-28.216	8.356-05	10.195
.3700	2.7027	8.102+14	4.197-11	-29.057	1.917-04	9.294	4.077-11	-29.026	1.862-04	9.325
.3800	2.6316	7.889+14	4.939-11	-29.234	2.379-04	9.059	4.818-11	-29.207	2.321-04	9.086
.3900	2.5641	7.687+14	5.010-11	-29.250	2.542-04	8.987	5.003-11	-29.248	2.538-04	8.989
.4000	2.5000	7.495+14	4.733-11	-29.188	2.526-04	8.994	4.739-11	-29.189	2.529-04	8.993
.4200	2.3810	7.138+14	4.164-11	-29.049	2.450-04	9.027	4.181-11	-29.053	2.460-04	9.023
.4400	2.2727	6.813+14	3.637-11	-28.902	2.349-04	9.073	3.642-11	-28.903	2.352-04	9.071
.4600	2.1739	6.517+14	3.251-11	-28.780	2.295-04	9.098	3.270-11	-28.786	2.308-04	9.092
.4800	2.0833	6.246+14	2.838-11	-28.633	2.181-04	9.153	2.834-11	-28.631	2.178-04	9.155
.5000	2.0000	5.996+14	2.563-11	-28.522	2.137-04	9.175	2.572-11	-28.526	2.145-04	9.172
.5200	1.9231	5.765+14	2.281-11	-28.395	2.057-04	9.217	2.288-11	-28.399	2.064-04	9.213
.5400	1.8519	5.552+14	2.040-11	-28.274	1.984-04	9.256	2.045-11	-28.277	1.989-04	9.253
.5600	1.7857	5.353+14	1.830-11	-28.156	1.914-04	9.295	1.834-11	-28.158	1.918-04	9.293
.5800	1.7241	5.169+14	1.646-11	-28.041	1.847-04	9.334	1.650-11	-28.044	1.851-04	9.331
.6050	1.6529	4.955+14	1.448-11	-27.902	1.768-04	9.381	1.451-11	-27.904	1.772-04	9.379
.6350	1.5748	4.721+14	1.248-11	-27.741	1.679-04	9.438	1.250-11	-27.742	1.681-04	9.436
.6650	1.5038	4.508+14	1.073-11	-27.576	1.583-04	9.501	1.072-11	-27.575	1.581-04	9.502
.6950	1.4388	4.314+14	9.434-10	-27.437	1.520-04	9.545	9.454-10	-27.439	1.523-04	9.543
.7250	1.3793	4.135+14	8.261-10	-27.293	1.448-04	9.598	8.278-10	-27.295	1.451-04	9.596
.7550	1.3245	3.971+14	7.268-10	-27.154	1.382-04	9.649	7.284-10	-27.156	1.385-04	9.646
.7850	1.2739	3.819+14	6.420-10	-27.019	1.320-04	9.699	6.434-10	-27.021	1.323-04	9.697
.8100	1.2346	3.701+14	5.811-10	-26.911	1.272-04	9.739	5.824-10	-26.913	1.275-04	9.737
.8350	1.1976	3.590+14	6.065-10	-26.957	1.411-04	9.627	6.078-10	-26.959	1.414-04	9.624
.9000	1.1111	3.331+14	4.930-10	-26.732	1.332-04	9.689	4.944-10	-26.735	1.336-04	9.686
1.0000	1.0000	2.998+14	3.425-10	-26.337	1.142-04	9.855	3.435-10	-26.340	1.146-04	9.852
1.2000	.8333	2.498+14	1.806-10	-25.642	8.675-05	10.154	1.811-10	-25.645	8.699-05	10.151
1.8000	.5556	1.666+14	4.363-09	-24.099	4.715-05	10.816	4.377-09	-24.103	4.730-05	10.813
2.7000	.3704	1.110+14	9.669-08	-22.463	2.351-05	11.572	9.694-08	-22.466	2.357-05	11.569
4.0000	.2500	7.495+13	2.153-08	-20.833	1.149-05	12.349	2.158-08	-20.835	1.152-05	12.347
5.0000	.2000	5.996+13	9.086-07	-19.896	7.577-06	12.801	9.102-07	-19.898	7.590-06	12.799
6.5000	.1538	4.612+13	3.263-07	-18.784	4.599-06	13.343	3.267-07	-18.785	4.604-06	13.342



TEFF = 10000				LOG G = 4.0				TEFF = 10000				LOG G = 4.5				
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	2.494-02	4.008	2.206-19	46.641		2.553-02	3.982	2.259-19	46.615					
.0540	18.5185	5.552+15	1.432-01	2.110	1.393-18	44.640		1.397-01	2.137	1.359-18	44.667					
.0565	17.6991	5.306+15	7.034-01	.382	7.490-18	42.814		6.631-01	.446	7.061-18	42.878					
.0587	17.0358	5.107+15	2.548+00	-1.015	2.929-17	41.333		2.355+00	-.930	2.707-17	41.419					
.0612	16.3399	4.899+15	9.824+00	-2.481	1.227-16	39.778		8.944+00	-2.379	1.117-16	39.879					
.0634	15.7729	4.729+15	2.941+01	-3.671	3.943-16	38.510		2.656+01	-3.561	3.561-16	38.621					
.0671	14.9031	4.468+15	1.571+02	-5.490	2.359-15	36.568		1.410+02	-5.373	2.118-15	36.685					
.0705	14.1844	4.252+15	6.224+02	-6.985	1.032-14	34.966		5.576+02	-6.866	9.244-15	35.085					
.0736	13.5870	4.073+15	1.941+03	-8.220	3.507-14	33.638		1.740+03	-8.101	3.144-14	33.756					
.0770	12.9870	3.893+15	6.036+03	-9.452	1.194-13	32.308		5.423+03	-9.336	1.073-13	32.424					
.0810	12.3457	3.701+15	2.010+04	-10.758	4.399-13	30.892		1.812+04	-10.645	3.966-13	31.004					
.0850	11.7647	3.527+15	5.916+04	-11.930	1.426-12	29.615		5.353+04	-11.821	1.290-12	29.723					
.0890	11.2360	3.368+15	1.565+05	-12.986	4.135-12	28.459		1.422+05	-12.882	3.757-12	28.563					
.0930	10.7527	3.224+15	1.489+07	-17.932	4.296-10	23.417		1.163+07	-17.664	3.355-10	23.686					
.0975	10.2564	3.075+15	5.439+07	-19.339	1.725-09	21.908		4.475+07	-19.127	1.419-09	22.120					
.1025	9.7561	2.925+15	1.122+08	-20.125	3.932-09	21.013		9.288+07	-19.920	3.255-09	21.219					
.1075	9.3023	2.789+15	2.145+08	-20.829	8.268-09	20.206		1.800+08	-20.638	6.939-09	20.397					
.1125	8.8889	2.665+15	3.936+10	-26.488	1.662-06	14.449		1.990+10	-25.747	8.401-07	15.189					
.1175	8.5106	2.551+15	2.786+10	-26.112	1.283-06	14.729		1.212+10	-25.209	5.582-07	15.633					
.1220	8.1967	2.457+15	2.885+09	-23.650	1.432-07	17.110		1.785+09	-23.129	8.862-08	17.631					
.1270	7.8740	2.361+15	2.750+11	-28.598	1.480-05	12.075		2.130+11	-28.321	1.146-05	12.352					
.1325	7.5472	2.263+15	3.999+11	-29.005	2.342-05	11.576		3.654+11	-28.907	2.140-05	11.674					
.1375	7.2727	2.180+15	3.983+11	-29.001	2.512-05	11.500		3.723+11	-28.927	2.348-05	11.573					
.1422	7.0323	2.108+15	4.139+11	-29.042	2.792-05	11.385		3.934+11	-28.987	2.653-05	11.440					
.1482	6.7476	2.023+15	4.209+11	-29.060	3.084-05	11.277		4.075+11	-29.025	2.985-05	11.312					
.1547	6.4641	1.938+15	4.075+11	-29.025	3.253-05	11.219		4.123+11	-29.038	3.291-05	11.207					
.1598	6.2578	1.876+15	4.143+11	-29.043	3.529-05	11.131		4.149+11	-29.045	3.534-05	11.129					
.1649	6.0643	1.818+15	3.451+11	-28.845	3.130-05	11.261		3.404+11	-28.830	3.088-05	11.276					
.1730	5.7803	1.733+15	3.827+11	-28.957	3.821-05	11.045		3.915+11	-28.982	3.908-05	11.020					
.1830	5.4645	1.638+15	3.470+11	-28.851	3.876-05	11.029		3.544+11	-28.874	3.959-05	11.006					
.1930	5.1813	1.553+15	3.474+11	-28.852	4.316-05	10.912		3.552+11	-28.876	4.413-05	10.888					
.2015	4.9628	1.488+15	3.196+11	-28.762	4.328-05	10.909		3.274+11	-28.788	4.434-05	10.883					
.2100	4.7619	1.428+15	3.010+11	-28.696	4.428-05	10.885		3.080+11	-28.721	4.531-05	10.860					
.2200	4.5459	1.363+15	2.682+11	-28.571	4.330-05	10.909		2.691+11	-28.575	4.344-05	10.905					
.2300	4.3478	1.303+15	2.459+11	-28.477	4.339-05	10.907		2.468+11	-28.481	4.355-05	10.903					
.2400	4.1667	1.249+15	2.324+11	-28.416	4.465-05	10.875		2.392+11	-28.447	4.596-05	10.844					
.2482	4.0290	1.208+15	2.383+11	-28.443	4.897-05	10.775		2.461+11	-28.478	5.057-05	10.740					
.2557	3.9108	1.172+15	2.333+11	-28.420	5.088-05	10.734		2.409+11	-28.455	5.254-05	10.699					
.2660	3.7594	1.147+15	2.404+11	-28.452	5.674-05	10.615		2.487+11	-28.489	5.870-05	10.578					
.2776	3.6101	1.082+15	2.268+11	-28.389	5.805-05	10.591		2.340+11	-28.423	5.989-05	10.557					
.2870	3.4843	1.045+15	2.311+11	-28.409	6.350-05	10.493		2.386+11	-28.444	6.556-05	10.458					
.2970	3.3670	1.009+15	2.316+11	-28.412	6.814-05	10.416		2.384+11	-28.443	7.015-05	10.385					
.3070	3.2573	9.765+14	2.281+11	-28.395	7.171-05	10.361		2.345+11	-28.425	7.372-05	10.331					
.3170	3.1546	9.457+14	2.208+11	-28.360	7.401-05	10.327		2.270+11	-28.390	7.609-05	10.297					
.3270	3.0581	9.168+14	2.154+11	-28.333	7.683-05	10.286		2.213+11	-28.362	7.893-05	10.257					
.3370	2.9674	8.896+14	2.088+11	-28.299	7.910-05	10.255		2.142+11	-28.327	8.114-05	10.227					
.3480	2.8736	8.615+14	2.036+11	-28.272	8.225-05	10.212		2.087+11	-28.299	8.431-05	10.185					
.3600	2.7778	8.328+14	1.962+11	-28.232	8.482-05	10.179		2.009+11	-28.257	8.685-05	10.153					
.3700	2.7027	8.102+14	3.917+11	-28.982	1.789-04	9.369		3.850+11	-28.964	1.758-04	9.387					
.3800	2.6316	7.889+14	4.589+11	-29.154	2.210-04	9.139		4.388+11	-29.106	2.114-04	9.187					
.3900	2.5641	7.687+14	4.946+11	-29.236	2.509-04	9.001		4.841+11	-29.212	2.456-04	9.024					
.4000	2.5000	7.495+14	4.700+11	-29.180	2.508-04	9.002		4.620+11	-29.162	2.466-04	9.020					
.4200	2.3810	7.138+14	4.174+11	-29.051	2.456-04	9.024		4.139+11	-29.042	2.435-04	9.034					
.4400	2.2727	6.813+14	3.627+11	-28.899	2.342-04	9.076		3.591+11	-28.888	2.319-04	9.087					
.4600	2.1739	6.517+14	3.279+11	-28.789	2.314-04	9.089		3.276+11	-28.788	2.312-04	9.090					
.4800	2.0833	6.246+14	2.818+11	-28.625	2.166-04	9.161		2.792+11	-28.615	2.146-04	9.171					
.5000	2.0000	5.996+14	2.578+11	-28.528	2.150-04	9.169		2.577+11	-28.528	2.149-04	9.169					
.5200	1.9231	5.765+14	2.293+11	-28.401	2.068-04	9.211		2.294+11	-28.401	2.069-04	9.211					
.5400	1.8519	5.552+14	2.050+11	-28.279	1.994-04	9.251		2.053+11	-28.281	1.997-04	9.249					
.5600	1.7857	5.353+14	1.839+11	-28.161	1.924-04	9.290		1.843+11	-28.164	1.928-04	9.287					
.5800	1.7241	5.169+14	1.655+11	-28.047	1.857-04	9.328		1.659+11	-28.050	1.862-04	9.325					
.6050	1.6529	4.955+14	1.455+11	-27.907	1.776-04	9.376		1.460+11	-27.911	1.783-04	9.372					
.6350	1.5748	4.721+14	1.255+11	-27.747	1.688-04	9.432		1.260+11	-27.751	1.695-04	9.427					
.6650	1.5038	4.508+14	1.072+11	-27.575	1.581-04	9.502		1.072+11	-27.575	1.581-04	9.502					
.6950	1.4388	4.314+14	9.494+10	-27.444	1.530-04	9.539		9.547+10	-27.450	1.538-04	9.532					
.7250	1.3793	4.135+14	8.316+10	-27.300	1.458-04	9.591		8.366+10	-27.306	1.467-04	9.584					
.7550	1.3245	3.971+14	7.318+10	-27.161	1.391-04	9.641		7.366+10	-27.168	1.401-04	9.634					
.7850	1.2739	3.819+14	6.467+10	-27.027	1.329-04	9.691		6.511+10	-27.034	1.338-04	9.684					
.8100	1.2346	3.701+14	5.855+10	-26.919	1.281-04	9.731		5.897+10	-26.927	1.291-04	9.723					
.8350	1.1976	3.590+14	6.093+10	-26.962	1.417-04	9.622		6.110+10	-26.965	1.421-04	9.619					
.9000	1.1111	3.331+14	4.955+10	-26.738	1.339-04	9.683		4.960+10	-26.739	1.340-04	9.682					
1.0000	1.0000	2.998+14	3.445+10	-26.343	1.149-04	9.849		3.455+10	-26.346	1.152-04	9.846					
1.2000	.8333	2.498+14	1.819+10	-25.650	8.737-05	10.147		1.829+10	-25.656	8.785-05	10.141					
1.8000	.5556	1.666+14	4.397+09	-24.108	4.752-05	10.808		4.422+09	-24.114	4.779-05	10.802					
2.7000	.3704	1.110+14	9.732+08	-22.471	2.367-05	11.565		9.778+08	-22.476	2.378-05	11.560					
4.0000	.2500	7.495+13	2.165+08	-20.839	1.155-05	12.343		2.174+08	-20.843	1.160-05	12.339					
5.0000	.2000	5.996+13	9.130+07	-19.901	7.614-06	12.7										



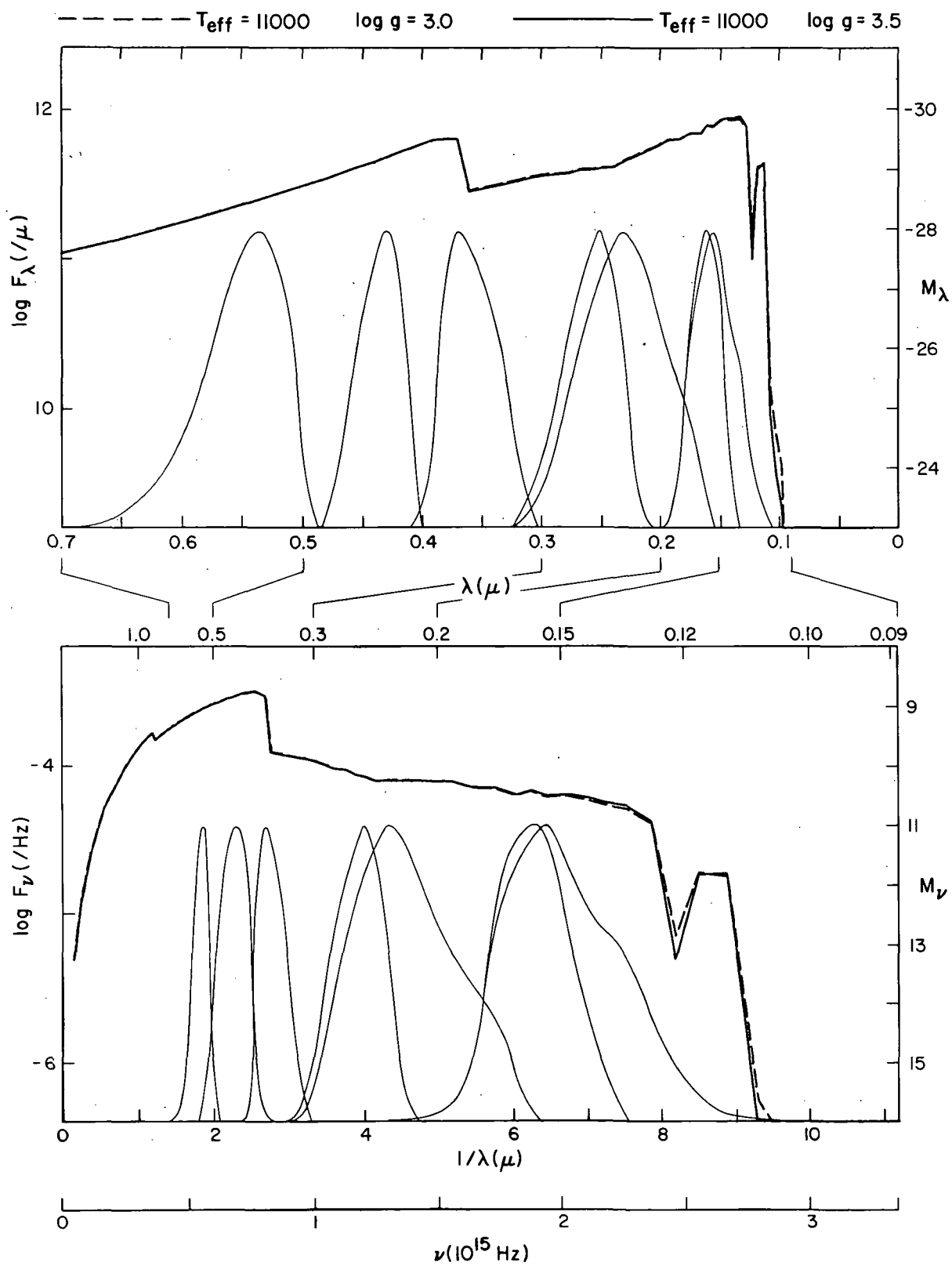
TEFF = 11000

LOG G = 2.0

TEFF = 11000

LOG G = 2.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0515	19.4175	5.821+15	1.388+00	-0.356	1.228-17	42.277	9.308-01	.078	8.235-18	42.711
.0540	18.5185	5.552+15	6.298+00	-1.998	6.126-17	40.532	4.357+00	-1.598	4.238-17	40.932
.0565	17.6991	5.306+15	2.491+01	-3.491	2.652-16	38.941	1.778+01	-3.125	1.893-16	39.307
.0587	17.0358	5.107+15	7.432+01	-4.678	8.542-16	37.671	5.506+01	-4.352	6.328-16	37.997
.0612	16.3399	4.899+15	2.405+02	-5.953	3.005-15	36.306	1.823+02	-5.652	2.278-15	36.606
.0634	15.7729	4.729+15	6.165+02	-6.975	8.266-15	35.207	4.808+02	-6.705	6.446-15	35.477
.0671	14.9031	4.468+15	2.617+03	-8.545	3.930-14	33.514	2.127+03	-8.319	3.194-14	33.739
.0705	14.1844	4.252+15	8.648+03	-9.842	1.434-13	32.109	7.249+03	-9.651	1.202-13	32.300
.0736	13.5870	4.073+15	2.328+04	-10.917	4.206-13	30.940	2.002+04	-10.754	3.617-13	31.104
.0770	12.9870	3.893+15	6.280+04	-11.995	1.242-12	29.765	5.525+04	-11.856	1.093-12	29.904
.0810	12.3457	3.701+15	1.801+05	-13.139	3.942-12	28.511	1.624+05	-13.026	3.554-12	28.623
.0850	11.7647	3.527+15	4.659+05	-14.171	1.123-11	27.374	4.283+05	-14.079	1.032-11	27.466
.0890	11.2360	3.368+15	1.102+06	-15.105	2.912-11	26.340	1.028+06	-15.030	2.716-11	26.415
.0930	10.7527	3.224+15	1.063+09	-22.566	3.067+08	18.783	3.375+08	-21.321	9.737+09	20.029
.0975	10.2564	3.075+15	1.268+10	-25.258	4.021+07	15.989	7.134+09	-24.633	2.262+07	16.614
.1025	9.7561	2.925+15	2.029+10	-25.768	7.111+07	15.370	1.151+10	-25.153	4.034+07	15.986
.1075	9.3023	2.789+15	3.182+10	-26.257	1.227+06	14.778	2.101+10	-25.806	8.099+07	15.229
.1125	8.8889	2.665+15	3.453+11	-28.845	1.458+05	12.091	3.942+11	-28.989	1.664+05	11.947
.1175	8.5106	2.551+15	3.768+11	-28.940	1.735+05	11.902	4.059+11	-29.021	1.869+05	11.821
.1220	8.1967	2.457+15	2.080+11	-28.295	1.033+05	12.465	1.806+11	-28.142	8.966+06	12.618
.1270	7.8740	2.361+15	6.335+11	-29.504	3.408+05	11.169	7.112+11	-29.630	3.826+05	11.043
.1325	7.5472	2.263+15	7.533+11	-29.692	4.411+05	10.889	8.259+11	-29.792	4.837+05	10.789
.1375	7.2727	2.180+15	7.573+11	-29.698	4.776+05	10.802	8.160+11	-29.779	5.146+05	10.721
.1422	7.0323	2.108+15	7.895+11	-29.743	5.325+05	10.684	8.361+11	-29.806	5.639+05	10.622
.1482	6.7476	2.023+15	7.999+11	-29.758	5.860+05	10.580	8.329+11	-29.801	6.102+05	10.536
.1547	6.4641	1.938+15	7.310+11	-29.660	5.835+05	10.585	7.540+11	-29.693	6.019+05	10.551
.1598	6.2578	1.876+15	7.752+11	-29.724	6.603+05	10.451	7.863+11	-29.739	6.698+05	10.435
.1649	6.0643	1.818+15	6.878+11	-29.594	6.239+05	10.512	6.909+11	-29.599	6.267+05	10.507
.1730	5.7803	1.733+15	7.127+11	-29.632	7.115+05	10.370	7.073+11	-29.624	7.061+05	10.378
.1830	5.4645	1.638+15	6.474+11	-29.528	7.232+05	10.352	6.402+11	-29.516	7.151+05	10.364
.1930	5.1813	1.553+15	6.699+11	-29.565	8.323+05	10.199	6.482+11	-29.529	8.054+05	10.235
.2015	4.9628	1.488+15	6.159+11	-29.474	8.341+05	10.197	5.923+11	-29.431	8.022+05	10.239
.2100	4.7619	1.428+15	5.810+11	-29.410	8.547+05	10.171	5.561+11	-29.363	8.180+05	10.218
.2200	4.5455	1.363+15	5.398+11	-29.331	8.715+05	10.149	5.122+11	-29.274	8.269+05	10.206
.2300	4.3478	1.303+15	4.950+11	-29.237	8.735+05	10.147	4.686+11	-29.177	8.269+05	10.206
.2400	4.1667	1.249+15	4.430+11	-29.116	8.511+05	10.175	4.203+11	-29.059	8.075+05	10.232
.2482	4.0290	1.208+15	4.488+11	-29.130	9.222+05	10.088	4.234+11	-29.067	8.700+05	10.151
.2557	3.9108	1.172+15	4.365+11	-29.100	9.520+05	10.053	4.115+11	-29.036	8.975+05	10.117
.2660	3.7594	1.127+15	4.422+11	-29.114	1.044+04	9.954	4.155+11	-29.046	9.806+05	10.021
.2770	3.6101	1.082+15	4.150+11	-29.045	1.062+04	9.935	3.897+11	-28.977	9.974+05	10.003
.2870	3.4843	1.045+15	4.129+11	-29.040	1.134+04	9.863	3.874+11	-28.970	1.064+04	9.932
.2970	3.3670	1.009+15	4.078+11	-29.026	1.200+04	9.802	3.822+11	-28.956	1.125+04	9.873
.3070	3.2573	9.765+14	3.972+11	-28.998	1.249+04	9.759	3.721+11	-28.927	1.170+04	9.830
.3170	3.1546	9.457+14	3.773+11	-28.942	1.265+04	9.745	3.541+11	-28.873	1.187+04	9.814
.3270	3.0581	9.168+14	3.632+11	-28.900	1.295+04	9.719	3.411+11	-28.832	1.217+04	9.787
.3370	2.9674	8.896+14	3.473+11	-28.852	1.316+04	9.702	3.266+11	-28.785	1.237+04	9.769
.3480	2.8736	8.615+14	3.332+11	-28.807	1.346+04	9.677	3.138+11	-28.742	1.268+04	9.743
.3600	2.7778	8.328+14	3.166+11	-28.751	1.369+04	9.659	2.986+11	-28.688	1.291+04	9.723
.3700	2.7027	8.102+14	6.188+11	-29.479	2.826+04	8.872	6.364+11	-29.509	2.906+04	8.842
.3800	2.6316	7.889+14	6.129+11	-29.468	2.952+04	8.825	6.358+11	-29.508	3.062+04	8.785
.3900	2.5641	7.687+14	5.903+11	-29.428	2.995+04	8.809	6.171+11	-29.476	3.131+04	8.761
.4000	2.5000	7.495+14	5.551+11	-29.361	2.963+04	8.821	5.787+11	-29.406	3.089+04	8.776
.4200	2.3810	7.138+14	4.896+11	-29.225	2.881+04	8.851	5.073+11	-29.263	2.985+04	8.813
.4400	2.2727	6.813+14	4.312+11	-29.087	2.785+04	8.888	4.442+11	-29.119	2.869+04	8.856
.4600	2.1739	6.517+14	3.839+11	-28.961	2.710+04	8.918	3.942+11	-28.989	2.782+04	8.889
.4800	2.0833	6.246+14	3.403+11	-28.830	2.615+04	8.956	3.467+11	-28.850	2.664+04	8.936
.5000	2.0000	5.996+14	3.045+11	-28.709	2.539+04	8.988	3.099+11	-28.728	2.584+04	8.969
.5200	1.9231	5.765+14	2.719+11	-28.586	2.452+04	9.026	2.758+11	-28.601	2.488+04	9.011
.5400	1.8519	5.552+14	2.436+11	-28.467	2.369+04	9.063	2.463+11	-28.479	2.396+04	9.051
.5600	1.7857	5.353+14	2.189+11	-28.351	2.290+04	9.100	2.208+11	-28.360	2.310+04	9.091
.5800	1.7241	5.169+14	1.972+11	-28.237	2.213+04	9.138	1.984+11	-28.244	2.226+04	9.131
.6050	1.6529	4.955+14	1.736+11	-28.099	2.120+04	9.184	1.742+11	-28.103	2.127+04	9.181
.6350	1.5748	4.721+14	1.498+11	-27.939	2.015+04	9.239	1.499+11	-27.940	2.016+04	9.239
.6650	1.5038	4.508+14	1.297+11	-27.782	1.913+04	9.296	1.293+11	-27.779	1.907+04	9.299
.6950	1.4388	4.314+14	1.132+11	-27.635	1.824+04	9.348	1.128+11	-27.631	1.817+04	9.351
.7250	1.3793	4.135+14	9.909+10	-27.490	1.737+04	9.400	9.861+10	-27.485	1.729+04	9.406
.7550	1.3245	3.971+14	8.710+10	-27.350	1.656+04	9.452	8.657+10	-27.343	1.646+04	9.459
.7850	1.2739	3.819+14	7.687+10	-27.214	1.580+04	9.503	7.632+10	-27.207	1.569+04	9.511
.8100	1.2346	3.701+14	6.948+10	-27.105	1.521+04	9.545	6.893+10	-27.096	1.509+04	9.554
.8350	1.1976	3.590+14	7.065+10	-27.123	1.643+04	9.461	7.154+10	-27.136	1.664+04	9.447
.9000	1.1111	3.331+14	5.537+10	-26.858	1.496+04	9.563	5.599+10	-26.870	1.513+04	9.551
1.0000	1.0000	2.998+14	3.860+10	-26.466	1.288+04	9.726	3.885+10	-26.473	1.296+04	9.719
1.2000	.8333	2.498+14	2.041+10	-25.775	9.804+05	10.022	2.042+10	-25.775	9.808+05	10.021
1.8000	.5556	1.666+14	4.859+09	-24.216	5.251+05	10.699	4.848+09	-24.214	5.239+05	10.702
2.7000	.3704	1.110+14	1.072+09	-22.575	2.607+05	11.460	1.066+09	-22.569	2.592+05	11.466
4.0000	.2500	7.495+13	2.382+08	-20.942	1.271+05	12.239	2.364+08	-20.934	1.262+05	12.248
5.0000	.2000	5.996+13	1.004+08	-20.004	8.372+06	12.693	9.958+07	-19.995	8.304+06	12.702
6.5000	.1538	4.612+13	3.603+07	-18.892	5.078+06	13.236	3.573+07	-18.883	5.035+06	13.245



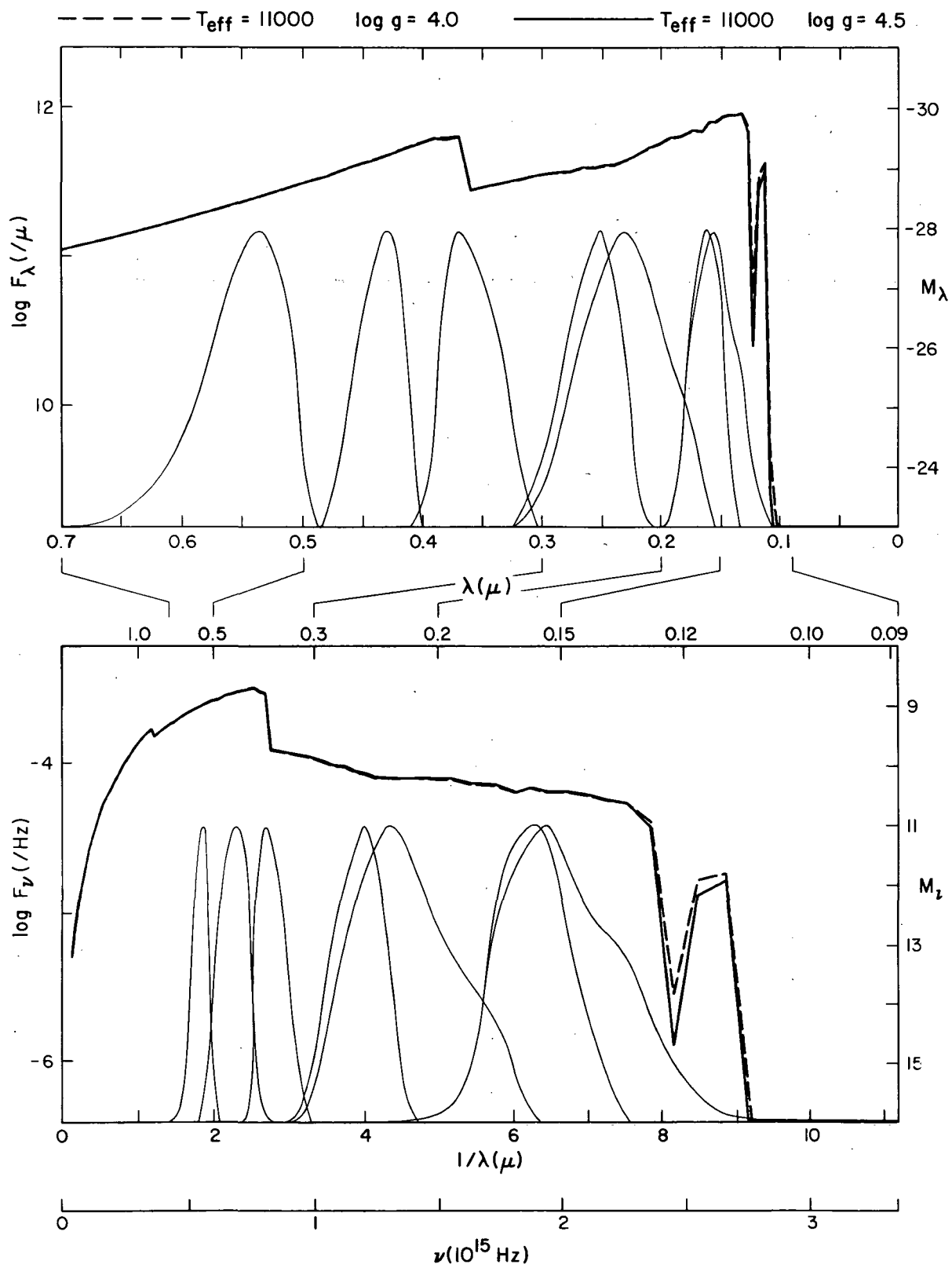
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TEFF = 11000

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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	9.930-01	.008	8.785-18	42.641	1.275+00	-.264	1.128-17	42.369
.0540	18.5185	5.552+15	4.663+00	-1.672	4.536-17	40.858	5.967+00	-1.939	5.804-17	40.591
.0565	17.6991	5.306+15	1.909+01	-3.202	2.033-16	39.230	2.436+01	-3.467	2.594-16	38.965
.0587	17.0358	5.107+15	5.960+01	-4.438	6.850-16	37.911	7.601+01	-4.702	8.736-16	37.647
.0612	16.3399	4.899+15	1.979+02	-5.741	2.472-15	36.517	2.516+02	-6.002	3.143-15	36.257
.0634	15.7729	4.729+15	5.249+02	-6.800	7.038-15	35.381	6.657+02	-7.058	8.926-15	35.123
.0671	14.9031	4.468+15	2.338+03	-8.422	3.511-14	33.636	2.952+03	-8.675	4.433-14	33.383
.0705	14.1844	4.252+15	8.004+03	-9.758	1.327-13	32.193	1.006+04	-10.006	1.668-13	31.945
.0736	13.5870	4.073+15	2.216+04	-10.864	4.004-13	30.994	2.770+04	-11.106	5.005-13	30.751
.0770	12.9870	3.893+15	6.129+04	-11.968	1.212-12	29.791	7.617+04	-12.204	1.506-12	29.555
.0810	12.3457	3.701+15	1.804+05	-13.141	3.948-12	28.509	2.226+05	-13.369	4.872-12	28.281
.0850	11.7647	3.527+15	4.757+05	-14.193	1.146-11	27.352	5.830+05	-14.414	1.405-11	27.131
.0890	11.2360	3.368+15	1.140+06	-15.142	3.012-11	26.303	1.388+06	-15.356	3.667-11	26.089
.0930	10.7527	3.224+15	2.148+08	-20.830	6.197-09	25.520	1.652+08	-20.545	4.766-09	25.805
.0975	10.2564	3.075+15	4.053+09	-24.019	1.285-07	24.728	2.078+09	-23.294	6.589-08	24.953
.1025	9.7561	2.925+15	6.720+09	-24.568	2.355-07	23.570	3.583+09	-23.886	1.256-07	23.253
.1075	9.3023	2.789+15	1.448+10	-25.402	5.582-07	22.633	9.216+09	-24.911	3.553-07	22.124
.1125	8.8889	2.665+15	4.318+11	-29.088	1.823-05	21.848	4.475+11	-29.127	1.889-05	21.809
.1175	8.5106	2.551+15	4.183+11	-29.054	1.926-05	21.788	4.034+11	-29.014	1.858-05	21.828
.1220	8.1967	2.457+15	1.438+11	-27.894	7.139-06	22.866	9.994+10	-27.499	4.962-06	23.261
.1270	7.8740	2.361+15	7.633+11	-29.707	4.107-05	20.966	7.839+11	-29.736	4.217-05	20.937
.1325	7.5472	2.263+15	8.792+11	-29.860	5.149-05	20.721	9.141+11	-29.902	5.353-05	20.678
.1375	7.2727	2.180+15	8.583+11	-29.834	5.413-05	20.666	8.861+11	-29.869	5.588-05	20.632
.1422	7.0323	2.108+15	8.693+11	-29.848	5.863-05	20.580	8.917+11	-29.876	6.014-05	20.552
.1482	6.7476	2.023+15	8.557+11	-29.831	6.269-05	20.507	8.706+11	-29.850	6.378-05	20.488
.1547	6.4641	1.938+15	7.731+11	-29.721	6.172-05	20.524	7.886+11	-29.742	6.295-05	20.502
.1598	6.2578	1.876+15	7.947+11	-29.751	6.769-05	20.424	8.008+11	-29.759	6.821-05	20.415
.1649	6.0643	1.818+15	6.953+11	-29.605	6.307-05	20.501	6.990+11	-29.611	6.340-05	20.495
.1730	5.7803	1.733+15	7.060+11	-29.622	7.048-05	20.380	7.073+11	-29.624	7.061-05	20.378
.1830	5.4645	1.638+15	6.394+11	-29.514	7.143-05	20.365	6.412+11	-29.517	7.163-05	20.362
.1930	5.1813	1.553+15	6.370+11	-29.510	7.915-05	20.254	6.313+11	-29.501	7.844-05	20.264
.2015	4.9628	1.488+15	5.812+11	-29.411	7.871-05	20.260	5.761+11	-29.401	7.802-05	20.269
.2100	4.7619	1.428+15	5.448+11	-29.341	8.014-05	20.240	5.396+11	-29.330	7.938-05	20.251
.2200	4.5455	1.363+15	4.991+11	-29.245	8.058-05	20.234	4.916+11	-29.229	7.937-05	20.251
.2300	4.3478	1.303+15	4.569+11	-29.150	8.062-05	20.234	4.507+11	-29.135	7.953-05	20.249
.2400	4.1667	1.249+15	4.122+11	-29.038	7.920-05	20.253	4.102+11	-29.032	7.881-05	20.259
.2482	4.0290	1.208+15	4.129+11	-29.040	8.485-05	20.178	4.089+11	-29.029	8.402-05	20.189
.2557	3.9108	1.172+15	4.011+11	-29.008	8.748-05	20.145	3.971+11	-28.997	8.660-05	20.156
.2660	3.7594	1.127+15	4.036+11	-29.015	9.530-05	20.052	3.983+11	-29.001	9.401-05	20.067
.2770	3.6101	1.082+15	3.787+11	-28.946	9.692-05	20.034	3.735+11	-28.931	9.559-05	20.049
.2870	3.4843	1.045+15	3.756+11	-28.937	1.032-04	9.966	3.697+11	-28.920	1.016-04	9.983
.2970	3.3670	1.009+15	3.698+11	-28.920	1.088-04	9.908	3.630+11	-28.900	1.068-04	9.929
.3070	3.2573	9.765+14	3.597+11	-28.890	1.131-04	9.867	3.526+11	-28.868	1.109-04	9.888
.3170	3.1546	9.457+14	3.427+11	-28.837	1.149-04	9.849	3.364+11	-28.817	1.128-04	9.870
.3270	3.0581	9.168+14	3.302+11	-28.797	1.178-04	9.822	3.240+11	-28.776	1.156-04	9.843
.3370	2.9674	8.896+14	3.163+11	-28.750	1.198-04	9.804	3.105+11	-28.730	1.176-04	9.824
.3480	2.8736	8.615+14	3.040+11	-28.707	1.228-04	9.777	2.985+11	-28.687	1.206-04	9.797
.3600	2.7778	8.328+14	2.894+11	-28.654	1.251-04	9.757	2.842+11	-28.634	1.229-04	9.776
.3700	2.7027	8.102+14	6.437+11	-29.522	2.939-04	8.829	6.470+11	-29.527	2.955-04	8.824
.3800	2.6316	7.889+14	6.433+11	-29.521	3.099-04	8.772	6.418+11	-29.518	3.091-04	8.775
.3900	2.5641	7.687+14	6.299+11	-29.498	3.196-04	8.739	6.343+11	-29.506	3.218-04	8.731
.4000	2.5000	7.495+14	5.905+11	-29.428	3.152-04	8.754	5.952+11	-29.437	3.177-04	8.745
.4200	2.3810	7.138+14	5.161+11	-29.282	3.037-04	8.794	5.199+11	-29.290	3.059-04	8.786
.4400	2.2727	6.813+14	4.503+11	-29.134	2.908-04	8.841	4.525+11	-29.139	2.922-04	8.836
.4600	2.1739	6.517+14	3.992+11	-29.003	2.818-04	8.875	4.016+11	-29.009	2.835-04	8.869
.4800	2.0833	6.246+14	3.493+11	-28.858	2.684-04	8.928	3.498+11	-28.860	2.688-04	8.926
.5000	2.0000	5.996+14	3.124+11	-28.737	2.605-04	8.960	3.132+11	-28.740	2.612-04	8.958
.5200	1.9231	5.765+14	2.774+11	-28.608	2.502-04	9.004	2.779+11	-28.610	2.507-04	9.002
.5400	1.8519	5.552+14	2.474+11	-28.483	2.406-04	9.047	2.476+11	-28.484	2.408-04	9.046
.5600	1.7857	5.353+14	2.214+11	-28.363	2.316-04	9.088	2.214+11	-28.363	2.316-04	9.088
.5800	1.7241	5.169+14	1.987+11	-28.245	2.230-04	9.129	1.986+11	-28.245	2.229-04	9.130
.6050	1.6529	4.955+14	1.743+11	-28.103	2.128-04	9.180	1.741+11	-28.102	2.126-04	9.181
.6350	1.5748	4.721+14	1.498+11	-27.939	2.015-04	9.239	1.495+11	-27.937	2.011-04	9.242
.6650	1.5038	4.508+14	1.288+11	-27.775	1.900-04	9.303	1.283+11	-27.771	1.893-04	9.307
.6950	1.4388	4.314+14	1.125+11	-27.628	1.813-04	9.354	1.122+11	-27.625	1.808-04	9.357
.7250	1.3793	4.135+14	9.826+10	-27.481	1.723-04	9.409	9.794+10	-27.477	1.717-04	9.413
.7550	1.3245	3.971+14	8.621+10	-27.339	1.639-04	9.463	8.591+10	-27.335	1.633-04	9.467
.7850	1.2739	3.819+14	7.596+10	-27.201	1.561-04	9.516	7.568+10	-27.197	1.556-04	9.520
.8100	1.2346	3.701+14	6.859+10	-27.091	1.501-04	9.559	6.832+10	-27.086	1.495-04	9.563
.8350	1.1976	3.590+14	7.196+10	-27.143	1.674-04	9.441	7.212+10	-27.145	1.677-04	9.438
.9000	1.1111	3.331+14	5.627+10	-26.876	1.520-04	9.545	5.634+10	-26.877	1.522-04	9.544
1.0000	1.0000	2.998+14	3.895+10	-26.476	1.299-04	9.716	3.896+10	-26.477	1.300-04	9.716
1.2000	.8333	2.498+14	2.041+10	-25.775	9.804-05	10.022	2.038+10	-25.773	9.789-05	10.023
1.8000	.5556	1.666+14	4.841+09	-24.212	5.232-05	10.703	4.834+09	-24.211	5.224-05	10.705
2.7000	.3704	1.110+14	1.063+09	-22.566	2.585-05	11.469	1.061+09	-22.564	2.580-05	11.471
4.0000	.2500	7.495+13	2.354+08	-20.930	1.256-05	12.252	2.349+08	-20.927	1.254-05	12.255
5.0000	.2000	5.996+13	9.913+07	-19.991	8.267-06	12.707	9.888+07	-19.988	8.246-06	12.709
6.5000	.1538	4.612+13	3.555+07	-18.877	5.010-06	13.250	3.546+07	-18.874	4.997-06	13.253





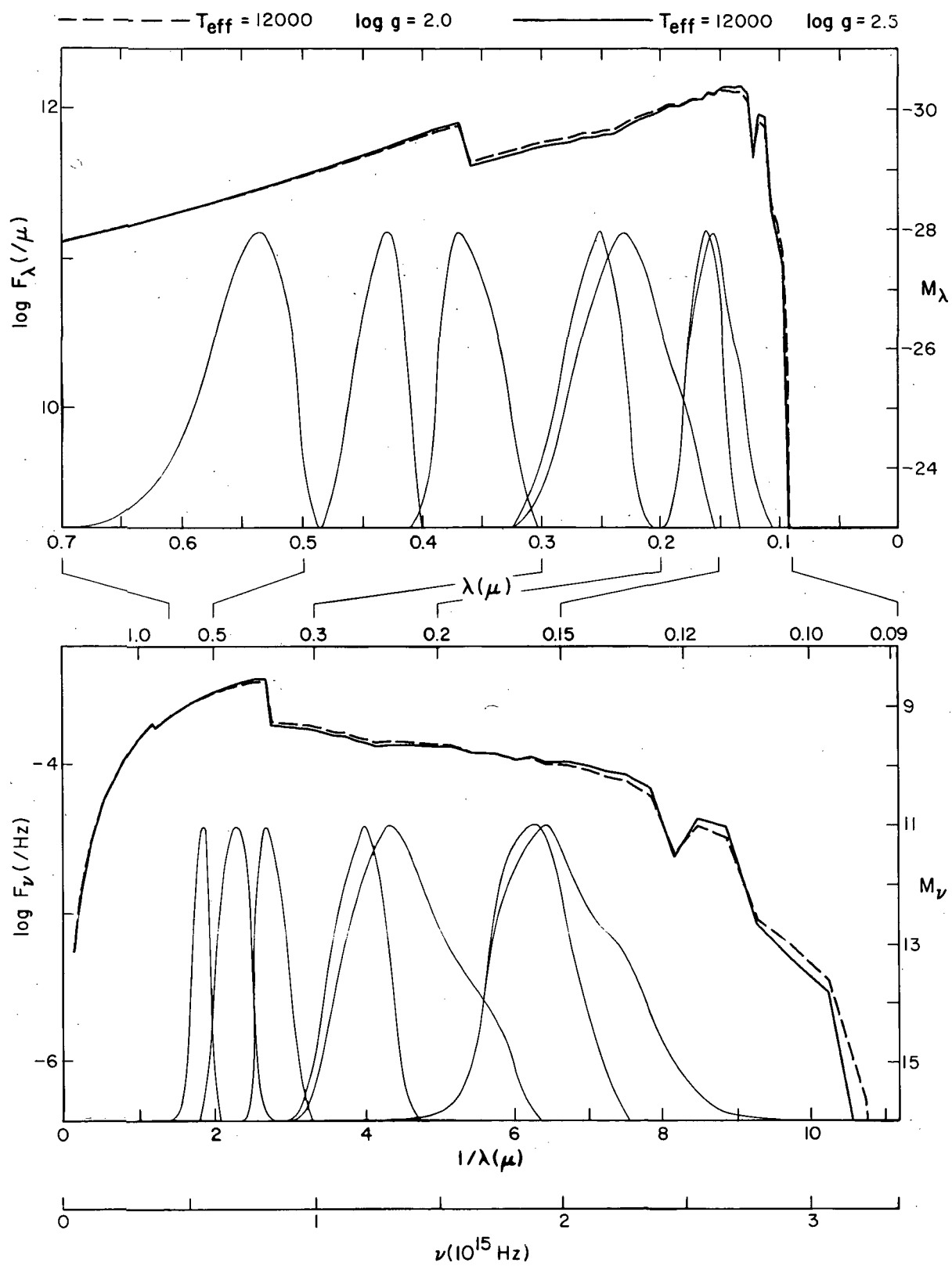
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TEFF = 11000

LOG G = 4.5

LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.6515	14.4175	5.821+15	1.722+00	-5.590	1.523-17	42.043	2.420+00	-9.960	2.141-17	41.673
.6540	16.5185	5.552+15	7.997+00	-2.257	7.778-17	40.273	1.107+01	-2.610	1.077-16	39.920
.6565	17.6991	5.306+15	3.239+01	-3.776	3.449-16	38.656	4.429+01	-4.116	4.716-16	38.316
.6587	17.0358	5.107+15	1.005+02	-5.005	1.155-15	37.343	1.361+02	-5.335	1.564-15	37.014
.6612	16.3399	4.899+15	3.300+02	-6.296	4.123-15	35.962	4.422+02	-6.614	5.525-15	35.644
.6634	15.7729	4.729+15	8.678+02	-7.346	1.164-14	34.836	1.153+03	-7.655	1.546-14	34.527
.6671	14.9031	4.468+15	3.808+03	-8.952	5.719-14	33.107	4.994+03	-9.246	7.500-14	32.812
.6705	14.1844	4.252+15	1.285+04	-10.272	2.130-13	31.679	1.666+04	-10.554	2.762-13	31.397
.6736	13.5870	4.073+15	3.511+04	-11.364	6.344-13	30.494	4.510+04	-11.635	8.149-13	30.222
.6770	12.9870	3.893+15	9.568+04	-12.452	1.892-12	49.308	1.217+05	-12.713	2.407-12	29.046
.6810	12.3457	3.701+15	2.769+05	-13.606	6.060-12	48.044	3.485+05	-13.856	7.627-12	27.794
.6850	11.7647	3.527+15	7.186+05	-14.641	1.732-11	46.904	8.954+05	-14.880	2.158-11	26.665
.6890	11.2360	3.368+15	1.696+06	-15.574	4.481-11	45.872	2.094+06	-15.802	5.533-11	25.643
.6930	10.7527	3.224+15	1.383+08	-20.352	3.990-09	40.998	1.182+08	-20.182	3.410-09	21.168
.6975	10.2564	3.075+15	1.026+09	-22.528	3.253-08	48.719	5.714+08	-21.892	1.812-08	19.355
.1025	9.7561	2.923+15	1.847+09	-23.166	6.473-08	47.972	1.072+09	-22.575	3.575-08	18.563
.1075	9.3023	2.789+15	5.361+09	-24.323	2.067-07	46.712	2.813+09	-23.623	1.084-07	17.412
.1125	8.8889	2.665+15	4.358+11	-29.098	1.840-05	41.838	3.911+11	-28.981	1.651-05	11.956
.1175	8.5106	2.551+15	3.588+11	-28.887	1.652-05	41.955	2.846+11	-28.636	1.311-05	12.206
.1220	8.1967	2.457+15	5.712+10	-26.892	2.836-06	43.868	2.578+10	-26.028	1.280-06	14.732
.1270	7.8740	2.361+15	7.663+11	-29.711	4.123-05	40.962	7.035+11	-29.618	3.785-05	11.055
.1325	7.5472	2.263+15	9.304+11	-29.922	5.449-05	40.659	9.278+11	-29.919	5.433-05	10.662
.1375	7.2727	2.180+15	9.022+11	-29.888	5.690-05	40.612	9.059+11	-29.893	5.713-05	10.608
.1422	7.0323	2.108+15	9.069+11	-29.894	6.117-05	40.534	9.140+11	-29.902	6.165-05	10.525
.1482	6.7476	2.023+15	8.823+11	-29.864	6.464-05	40.474	8.888+11	-29.872	6.511-05	10.466
.1547	6.4641	1.938+15	8.036+11	-29.763	6.415-05	40.482	8.169+11	-29.780	6.521-05	10.464
.1598	6.2578	1.876+15	8.080+11	-29.769	6.882-05	40.406	8.148+11	-29.778	6.940-05	10.397
.1649	6.0643	1.818+15	7.040+11	-29.619	6.385-05	40.487	7.070+11	-29.624	6.413-05	10.482
.1730	5.7803	1.733+15	7.136+11	-29.634	7.124-05	40.368	7.225+11	-29.647	7.213-05	10.355
.1830	5.4645	1.638+15	6.483+11	-29.529	7.242-05	40.350	6.570+11	-29.544	7.339-05	10.336
.1930	5.1813	1.553+15	6.330+11	-29.504	7.865-05	40.261	6.385+11	-29.513	7.933-05	10.251
.2015	4.9628	1.488+15	5.784+11	-29.406	7.834-05	40.265	5.845+11	-29.417	7.916-05	10.254
.2100	4.7619	1.444+15	5.418+11	-29.335	7.970-05	40.246	5.474+11	-29.346	8.052-05	10.235
.2200	4.5455	1.363+15	4.902+11	-29.226	7.914-05	40.254	4.908+11	-29.227	7.924-05	10.253
.2300	4.3478	1.303+15	4.501+11	-29.133	7.942-05	40.250	4.513+11	-29.136	7.963-05	10.247
.2400	4.1667	1.249+15	4.146+11	-29.044	7.966-05	40.247	4.213+11	-29.061	8.095-05	10.230
.2482	4.0290	1.208+15	4.118+11	-29.037	8.462-05	40.181	4.179+11	-29.053	8.587-05	10.165
.2557	3.9108	1.172+15	3.997+11	-29.004	8.717-05	40.149	4.052+11	-29.019	8.837-05	10.134
.2660	3.7594	1.127+15	3.999+11	-29.005	9.438-05	40.063	4.047+11	-29.018	9.552-05	10.050
.2770	3.6101	1.082+15	3.749+11	-28.935	9.595-05	40.045	3.792+11	-28.947	9.705-05	10.032
.2870	3.4843	1.045+15	3.704+11	-28.922	1.018-04	9.981	3.743+11	-28.933	1.028-04	9.970
.2970	3.3670	1.009+15	3.628+11	-28.899	1.067-04	9.929	3.657+11	-28.908	1.076-04	9.920
.3070	3.2573	9.765+14	3.519+11	-28.866	1.106-04	9.890	3.543+11	-28.873	1.114-04	9.883
.3170	3.1546	9.457+14	3.359+11	-28.816	1.126-04	9.871	3.384+11	-28.824	1.134-04	9.863
.3270	3.0581	9.168+14	3.235+11	-28.775	1.154-04	9.845	3.257+11	-28.782	1.162-04	9.837
.3370	2.9674	8.896+14	3.100+11	-28.728	1.174-04	9.825	3.120+11	-28.735	1.182-04	9.819
.3480	2.8736	8.615+14	2.979+11	-28.685	1.203-04	9.799	2.998+11	-28.692	1.211-04	9.792
.3600	2.7778	8.328+14	2.836+11	-28.632	1.226-04	9.779	2.853+11	-28.638	1.233-04	9.772
.3700	2.7027	8.102+14	6.483+11	-29.529	2.960-04	8.822	6.446+11	-29.523	2.944-04	8.828
.3800	2.6316	7.889+14	6.334+11	-29.504	3.051-04	8.789	6.181+11	-29.478	2.977-04	8.815
.3900	2.5641	7.687+14	6.336+11	-29.505	3.215-04	8.732	6.290+11	-29.497	3.191-04	8.740
.4000	2.5000	7.495+14	5.957+11	-29.438	3.179-04	8.744	5.927+11	-29.432	3.163-04	8.750
.4200	2.3810	7.138+14	5.213+11	-29.293	3.067-04	8.783	5.210+11	-29.292	3.066-04	8.784
.4400	2.2727	6.813+14	4.530+11	-29.140	2.925-04	8.835	4.519+11	-29.138	2.918-04	8.837
.4600	2.1739	6.517+14	4.030+11	-29.013	2.844-04	8.865	4.040+11	-29.016	2.852-04	8.862
.4800	2.0833	6.246+14	3.495+11	-28.859	2.686-04	8.927	3.482+11	-28.855	2.676-04	8.931
.5000	2.0000	5.996+14	3.139+11	-28.742	2.618-04	8.955	3.144+11	-28.744	2.622-04	8.953
.5200	1.9231	5.765+14	2.784+11	-28.612	2.511-04	9.000	2.789+11	-28.614	2.516-04	8.998
.5400	1.8519	5.552+14	2.479+11	-28.486	2.411-04	9.044	2.484+11	-28.488	2.416-04	9.042
.5600	1.7857	5.353+14	2.216+11	-28.364	2.318-04	9.087	2.220+11	-28.366	2.322-04	9.085
.5800	1.7241	5.169+14	1.987+11	-28.245	2.230-04	9.129	1.991+11	-28.248	2.234-04	9.127
.6050	1.6529	4.955+14	1.742+11	-28.103	2.127-04	9.181	1.745+11	-28.104	2.131-04	9.179
.6350	1.5748	4.721+14	1.495+11	-27.937	2.011-04	9.242	1.498+11	-27.939	2.015-04	9.239
.6650	1.5038	4.508+14	1.281+11	-27.769	1.890-04	9.309	1.280+11	-27.768	1.888-04	9.310
.6950	1.4388	4.314+14	1.122+11	-27.625	1.808-04	9.357	1.125+11	-27.628	1.813-04	9.354
.7250	1.3793	4.135+14	9.797+10	-27.478	1.718-04	9.413	9.817+10	-27.480	1.721-04	9.410
.7550	1.3245	3.971+14	8.594+10	-27.335	1.634-04	9.467	8.612+10	-27.338	1.637-04	9.465
.7850	1.2739	3.819+14	7.571+10	-27.198	1.556-04	9.520	7.588+10	-27.200	1.560-04	9.517
.8100	1.2346	3.701+14	6.834+10	-27.087	1.496-04	9.563	6.850+10	-27.089	1.499-04	9.560
.8350	1.1976	3.590+14	7.228+10	-27.148	1.681-04	9.436	7.238+10	-27.149	1.683-04	9.435
.9000	1.1111	3.331+14	5.643+10	-26.879	1.525-04	9.542	5.651+10	-26.880	1.527-04	9.541
1.0000	1.0000	2.998+14	3.901+10	-26.478	1.301-04	9.714	3.907+10	-26.480	1.303-04	9.712
1.2000	.8333	2.498+14	2.041+10	-25.775	9.804-05	10.022	2.045+10	-25.777	9.823-05	10.019
1.6000	.5556	1.666+14	4.839+09	-24.212	5.230-05	10.704	4.849+09	-24.214	5.241-05	10.702
2.7000	.3704	1.110+14	1.061+09	-22.564	2.580-05	11.471	1.063+09	-22.566	2.585-05	11.469
4.0000	.2500	7.495+13	2.349+08	-20.927	1.254-05	12.255	2.353+08	-20.929	1.256-05	12.253
5.0000	.2000	5.996+13	9.890+07	-19.988	8.247-06	12.709	9.905+07	-19.990	8.260-06	12.708
6.5000	.1538	4.612+13	3.546+07	-18.874	4.997-06	13.253	3.550+07	-18.876	5.003-06	13.252



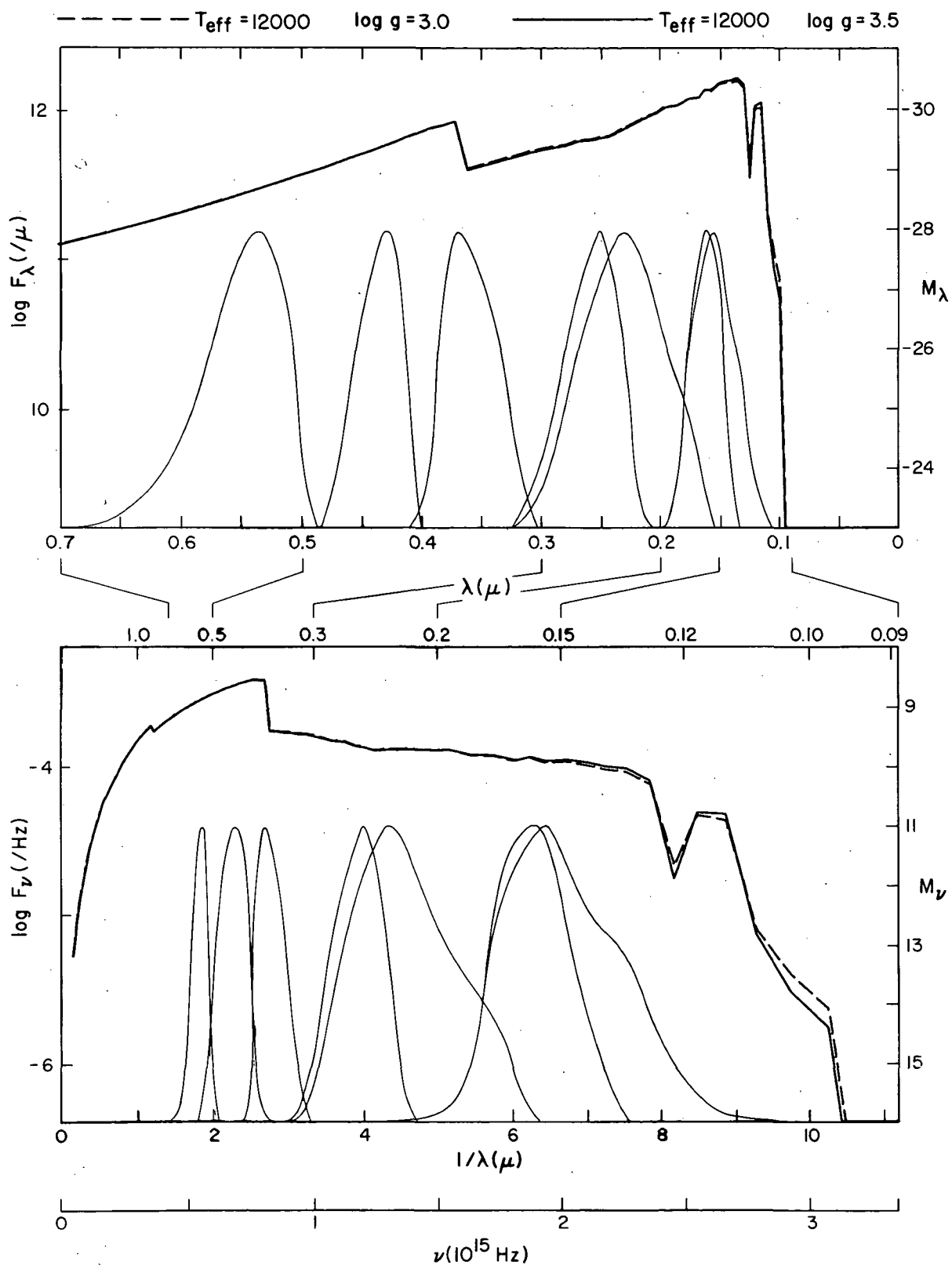
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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	1.391+02	-5.358	1.231-15	37.275	8.295+01	-4.797	7.339-16	37.836
.0540	18.5185	5.552+15	5.100+02	-6.769	4.961-15	35.761	3.036+02	-6.206	2.953-15	36.324
.0565	17.6991	5.306+15	1.646+03	-8.041	1.753-14	34.391	9.882+02	-7.487	1.052-14	34.945
.0587	17.0358	5.107+15	4.018+03	-9.010	4.618-14	33.339	2.491+03	-8.491	2.863-14	33.858
.0612	16.3399	4.899+15	1.116+04	-10.119	1.394-13	32.139	6.918+03	-9.600	8.643-14	32.658
.0634	15.7729	4.729+15	2.442+04	-10.969	3.274-13	31.212	1.550+04	-10.476	2.078-13	31.706
.0671	14.9031	4.468+15	8.182+04	-12.282	1.229-12	49.776	5.388+04	-11.829	8.092-13	30.230
.0705	14.1844	4.252+15	2.243+05	-13.377	3.719-12	48.574	1.518+05	-12.953	2.517-12	28.998
.0736	13.5870	4.073+15	5.151+05	-14.280	9.307-12	47.578	3.579+05	-13.884	6.467-12	27.973
.0770	12.9870	3.893+15	1.196+06	-15.194	2.365-11	46.565	8.480+05	-14.821	1.677-11	26.939
.0810	12.3457	3.701+15	2.899+06	-16.156	6.345-11	45.494	2.116+06	-15.814	4.631-11	25.836
.0850	11.7647	3.527+15	6.444+06	-17.023	1.553-10	44.522	4.824+06	-16.709	1.163-10	24.836
.0890	11.2360	3.368+15	1.341+07	-17.819	3.543-10	43.627	1.022+07	-17.524	2.700-10	23.921
.0930	10.7527	3.224+15	1.938+07	-18.518	5.591-09	42.631	5.162+07	-18.282	1.489-09	17.068
.0975	10.2564	3.075+15	1.130+08	-19.133	3.583-09	41.614	9.221+07	-19.012	2.924-09	13.835
.1025	9.7561	2.925+15	1.770+08	-19.663	6.203-08	40.518	1.418+08	-19.717	4.969-09	13.259
.1075	9.3023	2.789+15	2.400+08	-20.111	9.251-08	39.384	2.195+08	-20.354	8.461-09	12.681
.1125	8.8889	2.665+15	7.785+08	-20.478	3.287-07	38.208	9.094+08	-20.997	3.839-08	11.039
.1175	8.5106	2.551+15	8.528+08	-20.771	3.927-07	37.015	9.492+08	-21.693	4.371-08	10.898
.1220	8.1967	2.457+15	5.130+08	-21.000	2.547-06	35.885	4.844+08	-22.463	2.405-07	11.547
.1270	7.8740	2.361+15	1.155+09	-21.186	6.214-05	34.817	1.299+09	-23.284	6.989-05	10.389
.1325	7.5472	2.263+15	1.336+09	-21.331	7.824-05	33.826	1.465+09	-24.145	8.579-05	10.166
.1375	7.2727	2.180+15	1.326+09	-21.440	8.362-05	32.914	1.432+09	-25.039	9.031-05	10.111
.1422	7.0323	2.108+15	1.366+09	-21.513	9.214-05	32.089	1.451+09	-25.964	9.787-05	10.023
.1482	6.7476	2.023+15	1.373+09	-21.554	1.006-04	31.344	1.432+09	-26.939	1.049-04	9.948
.1547	6.4641	1.938+15	1.269+09	-21.563	1.013-04	30.686	1.304+09	-27.964	1.041-04	9.956
.1598	6.2578	1.876+15	1.314+09	-21.540	1.119-04	30.119	1.335+09	-29.034	1.137-04	9.860
.1649	6.0643	1.818+15	1.191+09	-21.484	1.080-04	29.646	1.195+09	-30.163	1.084-04	9.813
.1730	5.7803	1.733+15	1.197+09	-21.395	1.195-04	29.267	1.189+09	-31.358	1.187-04	9.814
.1830	5.4645	1.638+15	1.088+09	-21.271	1.215-04	28.988	1.074+09	-32.618	1.200-04	9.802
.1930	5.1813	1.553+15	1.103+09	-21.116	1.370-04	28.795	1.069+09	-33.943	1.328-04	9.692
.2015	4.9628	1.488+15	1.017+09	-20.931	1.377-04	28.682	9.776+08	-35.343	1.324-04	9.695
.2100	4.7619	1.428+15	9.566+08	-20.718	1.407-04	28.629	9.142+08	-36.818	1.345-04	9.678
.2200	4.5455	1.363+15	8.910+08	-20.478	1.438-04	28.605	8.428+08	-38.368	1.361-04	9.666
.2300	4.3476	1.303+15	8.181+08	-20.211	1.444-04	28.601	7.702+08	-40.003	1.359-04	9.667
.2400	4.1667	1.249+15	7.368+08	-19.918	1.416-04	28.623	6.920+08	-41.723	1.330-04	9.691
.2482	4.0290	1.208+15	7.286+08	-19.596	1.497-04	28.662	6.831+08	-43.528	1.404-04	9.632
.2557	3.9108	1.172+15	7.044+08	-19.248	1.536-04	28.714	6.597+08	-45.408	1.439-04	9.605
.2660	3.7594	1.127+15	6.998+08	-18.875	1.652-04	28.855	6.543+08	-47.363	1.544-04	9.528
.2770	3.6101	1.082+15	6.533+08	-18.468	1.672-04	29.042	6.100+08	-49.393	1.561-04	9.516
.2870	3.4843	1.045+15	6.353+08	-18.025	1.746-04	29.295	5.940+08	-51.508	1.632-04	9.468
.2970	3.3670	1.009+15	6.156+08	-17.548	1.811-04	29.615	5.759+08	-53.708	1.694-04	9.427
.3070	3.2573	9.765+14	5.918+08	-17.038	1.861-04	29.926	5.539+08	-56.003	1.741-04	9.398
.3170	3.1546	9.457+14	5.576+08	-16.498	1.869-04	30.221	5.226+08	-58.403	1.752-04	9.391
.3270	3.0581	9.168+14	5.313+08	-15.933	1.895-04	30.506	4.985+08	-60.903	1.778-04	9.375
.3370	2.9674	8.896+14	5.040+08	-15.348	1.909-04	30.788	4.734+08	-63.503	1.793-04	9.366
.3480	2.8736	8.615+14	4.780+08	-14.748	1.931-04	31.066	4.496+08	-66.203	1.816-04	9.352
.3600	2.7778	8.328+14	4.497+08	-14.138	1.944-04	31.338	4.236+08	-69.003	1.831-04	9.343
.3700	2.7027	8.102+14	7.886+07	-13.523	3.601-04	31.609	8.234+07	-71.903	3.760-04	8.562
.3800	2.6316	7.889+14	7.477+07	-12.908	3.601-04	31.880	7.814+07	-74.903	3.764-04	8.561
.3900	2.5641	7.687+14	7.108+07	-12.293	3.606-04	32.151	7.451+07	-78.003	3.780-04	8.556
.4000	2.5000	7.495+14	6.669+07	-11.678	3.559-04	32.422	6.968+07	-81.203	3.719-04	8.574
.4200	2.3810	7.138+14	5.861+07	-10.963	3.449-04	32.693	6.088+07	-84.603	3.582-04	8.615
.4400	2.2727	6.813+14	5.154+07	-10.248	3.328-04	32.964	5.320+07	-88.103	3.436-04	8.660
.4600	2.1739	6.517+14	4.568+07	-9.533	3.224-04	33.235	4.699+07	-91.703	3.317-04	8.698
.4800	2.0833	6.246+14	4.045+07	-8.818	3.109-04	33.506	4.132+07	-95.403	3.176-04	8.745
.5000	2.0000	5.996+14	3.602+07	-8.103	3.004-04	33.777	3.674+07	-99.203	3.064-04	8.784
.5200	1.9231	5.765+14	3.212+07	-7.388	2.897-04	34.048	3.263+07	-103.103	2.943-04	8.828
.5400	1.8519	5.552+14	2.872+07	-6.673	2.794-04	34.319	2.909+07	-107.103	2.830-04	8.871
.5600	1.7857	5.353+14	2.576+07	-5.958	2.695-04	34.590	2.602+07	-111.203	2.722-04	8.913
.5800	1.7241	5.169+14	2.316+07	-5.243	2.599-04	34.861	2.334+07	-115.403	2.619-04	8.955
.6050	1.6529	4.955+14	2.036+07	-4.528	2.486-04	35.132	2.045+07	-120.703	2.497-04	9.007
.6350	1.5748	4.721+14	1.753+07	-3.813	2.358-04	35.403	1.756+07	-126.103	2.362-04	9.067
.6650	1.5038	4.508+14	1.515+07	-3.098	2.235-04	35.674	1.513+07	-131.603	2.232-04	9.128
.6950	1.4388	4.314+14	1.319+07	-2.383	2.125-04	35.945	1.316+07	-137.203	2.120-04	9.184
.7250	1.3793	4.135+14	1.152+07	-1.668	2.020-04	36.216	1.148+07	-143.003	2.013-04	9.241
.7550	1.3245	3.971+14	1.011+07	-0.953	1.922-04	36.487	1.006+07	-148.903	1.913-04	9.296
.7850	1.2739	3.819+14	8.908+06	-0.238	1.831-04	36.758	8.848+06	-154.903	1.819-04	9.351
.8100	1.2346	3.701+14	8.040+06	-0.523	1.760-04	37.029	7.979+06	-161.003	1.746-04	9.395
.8350	1.1976	3.590+14	8.008+06	-0.808	1.862-04	37.300	8.127+06	-167.203	1.890-04	9.309
.9000	1.1111	3.331+14	6.224+06	-2.693	1.682-04	37.571	6.298+06	-173.603	1.702-04	9.423
1.0000	1.0000	2.998+14	4.330+06	-5.593	1.444-04	37.842	4.359+06	-180.203	1.454-04	9.594
1.2000	.8333	2.498+14	2.281+06	-12.893	1.096-04	38.113	2.281+06	-187.003	1.096-04	9.901
1.8000	.5556	1.666+14	5.356+05	-24.322	5.788-05	38.384	5.341+05	-194.003	5.772-05	10.597
2.7000	.3704	1.110+14	1.174+06	-22.674	2.855-05	38.655	1.167+06	-201.203	2.838-05	11.368
4.0000	.2500	7.495+13	2.599+08	-21.037	1.387-05	38.926	2.578+08	-208.603	1.376-05	12.154
5.0000	.2000	5.996+13	1.093+08	-20.097	9.115-06	39.197	1.084+08	-216.203	9.040-06	12.610
6.5000	.1538	4.612+13	3.916+07	-18.982	5.519-06	39.468	3.880+07	-224.003	5.468-06	13.155



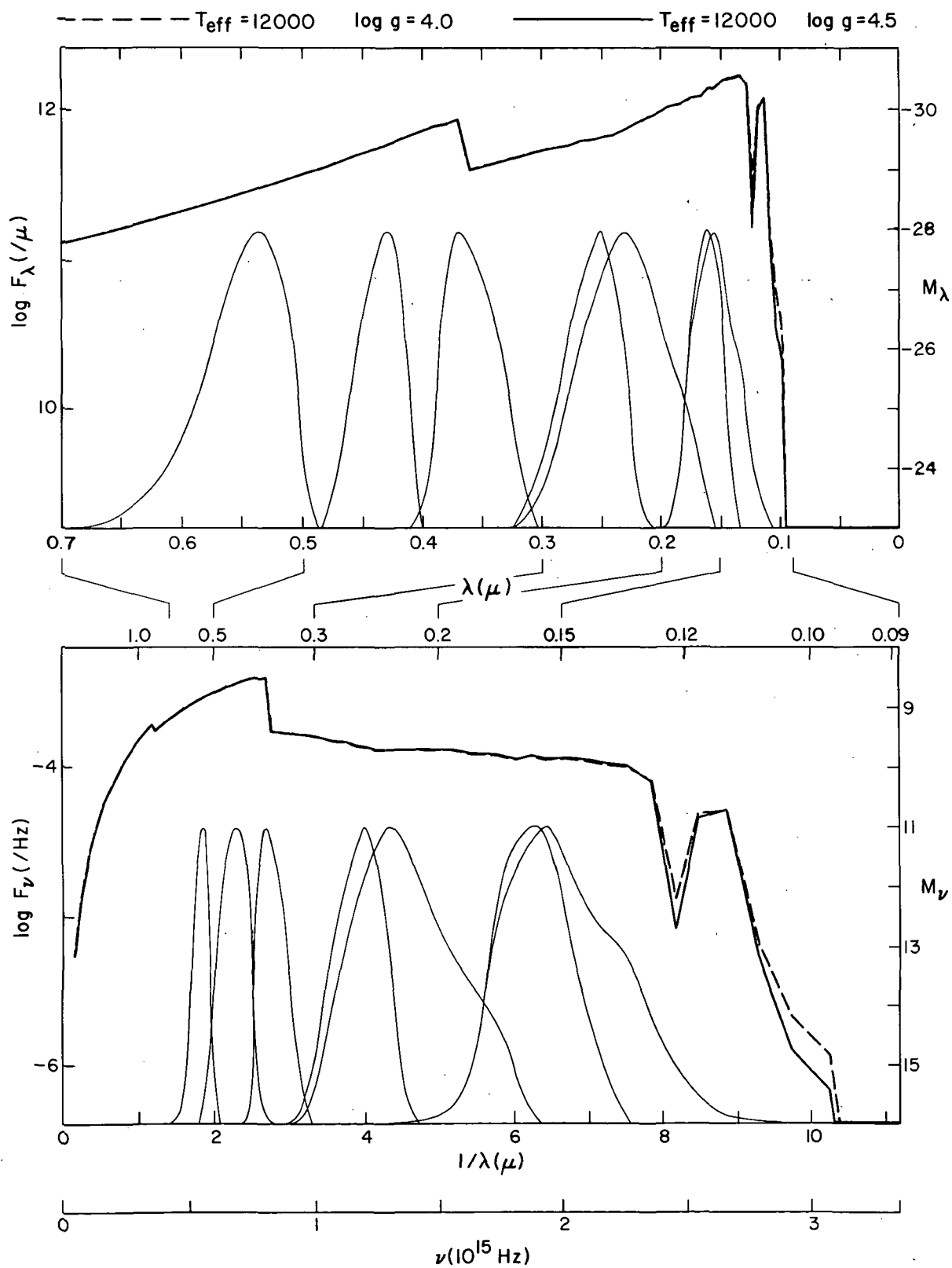
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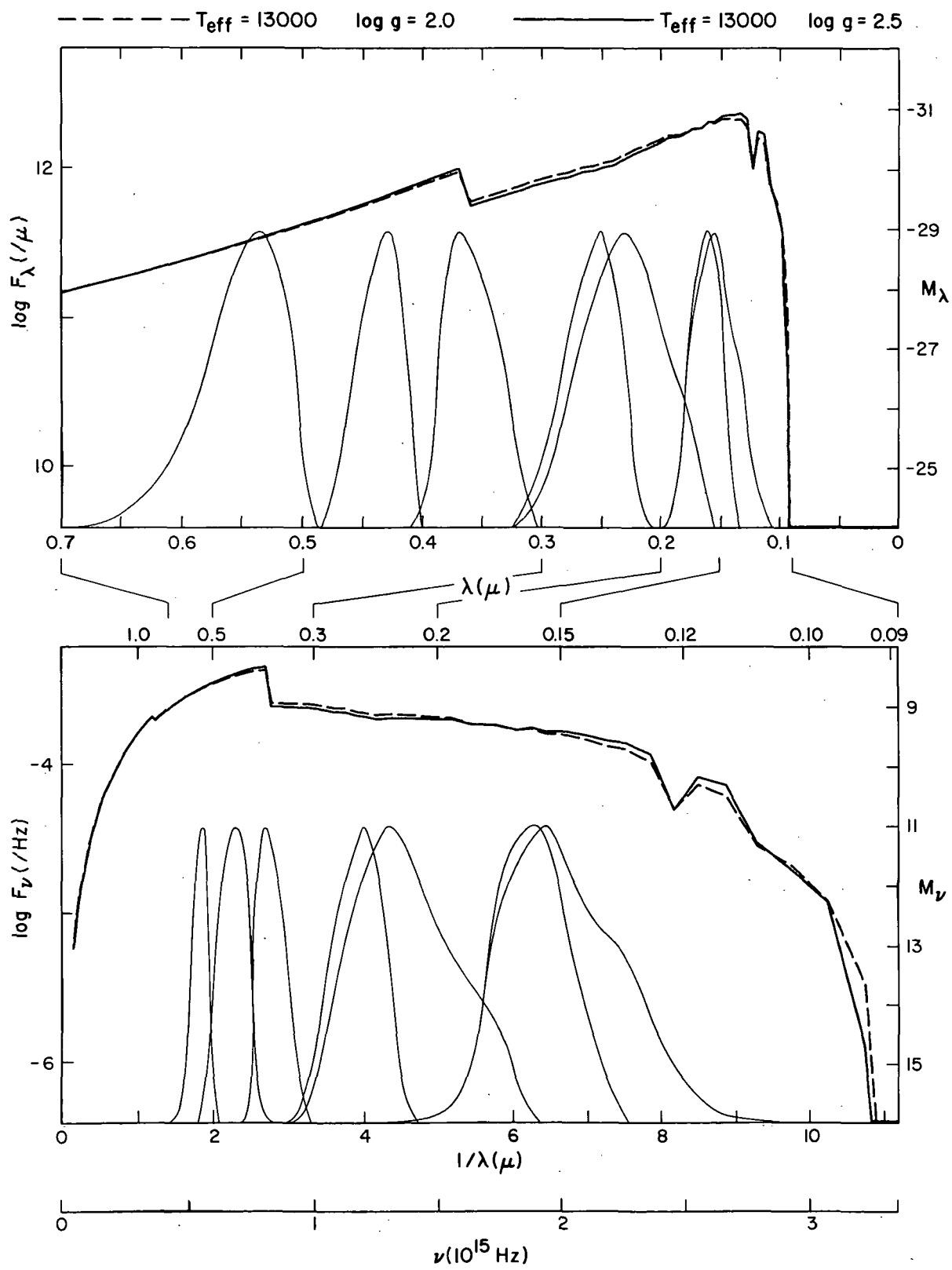
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LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.C515	19.4175	5.821+15	6.120+01	-4.467	5.414-16	38.166	5.353+01	-4.321	4.736-16	38.312
.C540	18.5185	5.552+15	2.286+02	-5.898	2.224-15	36.632	2.050+02	-5.779	1.994-15	36.751
.C565	17.6991	5.306+15	7.605+02	-7.203	8.098-15	35.229	6.969+02	-7.108	7.421-15	35.324
.C587	17.0358	5.107+15	1.978+03	-8.241	2.273-14	34.108	1.858+03	-8.173	2.136-14	34.176
.C612	16.3399	4.899+15	5.545+03	-9.360	6.928-14	32.899	5.273+03	-9.305	6.588-14	32.953
.C634	15.7729	4.729+15	1.268+04	-10.258	1.700-13	31.924	1.226+04	-10.221	1.644-13	31.960
.C671	14.9031	4.468+15	4.524+04	-11.639	6.794-13	30.420	4.474+04	-11.627	6.719-13	30.432
.C705	14.1844	4.252+15	1.297+05	-12.782	2.150-12	29.169	1.303+05	-12.787	2.160-12	29.164
.C736	13.5870	4.073+15	3.104+05	-13.730	5.609-12	28.128	3.161+05	-13.750	5.712-12	28.108
.C770	12.9870	3.893+15	7.445+05	-14.680	1.472-11	27.080	7.670+05	-14.712	1.517-11	27.048
.C810	12.3457	3.701+15	1.887+06	-15.689	4.130-11	25.960	1.967+06	-15.735	4.305-11	25.915
.C850	11.7647	3.527+15	4.360+06	-16.599	1.051-10	24.946	4.587+06	-16.654	1.105-10	24.891
.C890	11.2360	3.368+15	9.317+06	-17.423	2.462-10	24.022	9.855+06	-17.484	2.604-10	23.961
.C930	10.7527	3.224+15	1.761+09	-23.114	5.080-08	18.235	1.024+09	-22.526	2.954-08	18.824
.C975	10.2564	3.075+15	7.316+10	-27.161	2.320-06	14.086	5.403+10	-26.832	1.713-06	14.415
.C1025	9.7561	2.925+15	1.132+11	-27.635	3.967-06	13.504	8.584+10	-27.334	3.008-06	13.804
.C1075	9.3023	2.789+15	2.043+11	-28.276	7.875-06	12.759	1.885+11	-28.188	7.266-06	12.847
.C1125	8.8889	2.665+15	1.026+12	-30.028	4.331-05	10.908	1.120+12	-30.123	4.712-05	10.813
.C1175	8.5106	2.551+15	1.019+12	-30.020	4.693-05	10.821	1.053+12	-30.056	4.849-05	10.786
.C1220	8.1967	2.457+15	4.284+11	-29.080	2.127-05	11.681	3.501+11	-28.860	1.738-05	11.900
.C1270	7.8740	2.361+15	1.404+12	-30.368	7.554-05	10.305	1.473+12	-30.421	7.925-05	10.253
.C1325	7.5472	2.263+15	1.559+12	-30.482	9.130-05	10.099	1.632+12	-30.532	9.557-05	10.049
.C1375	7.2727	2.180+15	1.507+12	-30.445	9.504-05	10.055	1.566+12	-30.487	9.876-05	10.014
.C1422	7.0323	2.108+15	1.508+12	-30.446	1.017-04	9.982	1.555+12	-30.479	1.049-04	9.948
.C1482	6.7476	2.023+15	1.470+12	-30.418	1.077-04	9.920	1.502+12	-30.442	1.100-04	9.896
.C1547	6.4641	1.938+15	1.328+12	-30.308	1.060-04	9.937	1.353+12	-30.328	1.080-04	9.916
.C1598	6.2578	1.876+15	1.346+12	-30.323	1.147-04	9.852	1.358+12	-30.332	1.157-04	9.842
.C1649	6.0643	1.818+15	1.197+12	-30.195	1.086-04	9.911	1.204+12	-30.202	1.092-04	9.904
.C1730	5.7803	1.733+15	1.182+12	-30.182	1.180-04	9.820	1.184+12	-30.183	1.182-04	9.818
.C1830	5.4645	1.638+15	1.068+12	-30.071	1.193-04	9.808	1.070+12	-30.073	1.195-04	9.806
.C1930	5.1813	1.553+15	1.049+12	-30.052	1.303-04	9.712	1.039+12	-30.042	1.291-04	9.723
.C2015	4.9628	1.488+15	9.551+11	-29.950	1.294-04	9.721	9.452+11	-29.939	1.280-04	9.732
.C2100	4.7619	1.428+15	8.911+11	-29.875	1.311-04	9.706	8.809+11	-29.862	1.296-04	9.719
.C2200	4.5455	1.365+15	8.168+11	-29.780	1.319-04	9.700	8.033+11	-29.762	1.297-04	9.718
.C2300	4.3478	1.303+15	7.456+11	-29.681	1.316-04	9.702	7.333+11	-29.663	1.294-04	9.720
.C2400	4.1667	1.249+15	6.713+11	-29.567	1.290-04	9.724	6.634+11	-29.554	1.275-04	9.737
.C2482	4.0290	1.208+15	6.607+11	-29.550	1.358-04	9.668	6.506+11	-29.533	1.337-04	9.685
.C2557	3.9108	1.172+15	6.375+11	-29.511	1.390-04	9.642	6.271+11	-29.493	1.368-04	9.660
.C2660	3.7594	1.127+15	6.307+11	-29.500	1.489-04	9.568	6.185+11	-29.478	1.460-04	9.589
.C2770	3.6101	1.082+15	5.878+11	-29.423	1.504-04	9.557	5.760+11	-29.401	1.474-04	9.579
.C2870	3.4843	1.045+15	5.723+11	-29.394	1.572-04	9.509	5.602+11	-29.371	1.539-04	9.532
.C2970	3.3670	1.009+15	5.544+11	-29.360	1.631-04	9.469	5.418+11	-29.335	1.594-04	9.494
.C3070	3.2573	9.765+14	5.330+11	-29.317	1.676-04	9.440	5.205+11	-29.291	1.636-04	9.465
.C3170	3.1546	9.457+14	5.034+11	-29.255	1.687-04	9.432	4.919+11	-29.230	1.649-04	9.457
.C3270	3.0581	9.168+14	4.804+11	-29.204	1.713-04	9.415	4.694+11	-29.179	1.674-04	9.440
.C3370	2.9674	8.896+14	4.564+11	-29.148	1.729-04	9.406	4.461+11	-29.124	1.690-04	9.430
.C3480	2.8736	8.615+14	4.339+11	-29.093	1.753-04	9.391	4.241+11	-29.069	1.713-04	9.415
.C3600	2.7778	8.328+14	4.090+11	-29.029	1.768-04	9.381	3.999+11	-29.005	1.729-04	9.406
.C3700	2.7027	8.102+14	8.398+11	-29.810	3.835-04	8.541	8.499+11	-29.823	3.881-04	8.528
.C3800	2.6316	7.889+14	7.947+11	-29.751	3.828-04	8.543	7.994+11	-29.757	3.850-04	8.536
.C3900	2.5641	7.687+14	7.615+11	-29.704	3.863-04	8.533	7.692+11	-29.715	3.903-04	8.522
.C4000	2.5000	7.495+14	7.110+11	-29.630	3.795-04	8.552	7.182+11	-29.641	3.833-04	8.541
.C4200	2.3810	7.138+14	6.192+11	-29.480	3.643-04	8.596	6.243+11	-29.488	3.673-04	8.587
.C4400	2.2727	6.813+14	5.392+11	-29.329	3.482-04	8.645	5.425+11	-29.336	3.503-04	8.639
.C4600	2.1739	6.517+14	4.757+11	-29.193	3.358-04	8.685	4.786+11	-29.200	3.378-04	8.678
.C4800	2.0833	6.246+14	4.162+11	-29.048	3.199-04	8.738	4.172+11	-29.051	3.206-04	8.735
.C5000	2.0000	5.996+14	3.701+11	-28.921	3.086-04	8.776	3.713+11	-28.924	3.096-04	8.773
.C5200	1.9231	5.765+14	3.281+11	-28.790	2.959-04	8.822	3.288+11	-28.792	2.966-04	8.820
.C5400	1.8519	5.552+14	2.920+11	-28.663	2.840-04	8.867	2.923+11	-28.665	2.843-04	8.866
.C5600	1.7857	5.353+14	2.608+11	-28.541	2.728-04	8.910	2.608+11	-28.541	2.728-04	8.910
.C5800	1.7241	5.169+14	2.336+11	-28.421	2.621-04	8.954	2.335+11	-28.421	2.620-04	8.954
.C6050	1.6529	4.955+14	2.045+11	-28.277	2.497-04	9.007	2.042+11	-28.275	2.493-04	9.008
.C6350	1.5748	4.721+14	1.753+11	-28.109	2.358-04	9.069	1.749+11	-28.107	2.352-04	9.071
.C6650	1.5038	4.508+14	1.507+11	-27.945	2.223-04	9.133	1.501+11	-27.941	2.214-04	9.137
.C6950	1.4388	4.314+14	1.311+11	-27.794	2.112-04	9.188	1.306+11	-27.790	2.104-04	9.192
.C7250	1.3793	4.135+14	1.142+11	-27.644	2.002-04	9.246	1.138+11	-27.640	1.995-04	9.250
.C7550	1.3245	3.971+14	1.000+11	-27.500	1.901-04	9.302	9.960+10	-27.496	1.894-04	9.307
.C7850	1.2739	3.819+14	8.798+10	-27.361	1.808-04	9.357	8.757+10	-27.356	1.800-04	9.362
.C8100	1.2346	3.701+14	7.931+10	-27.248	1.736-04	9.401	7.892+10	-27.243	1.727-04	9.407
.C8350	1.1976	3.590+14	8.173+10	-27.281	1.901-04	9.303	8.191+10	-27.283	1.905-04	9.300
.C9000	1.1111	3.331+14	6.324+10	-27.002	1.709-04	9.418	6.331+10	-27.004	1.711-04	9.417
.C10000	1.0000	2.998+14	4.366+10	-26.600	1.456-04	9.592	4.365+10	-26.600	1.456-04	9.592
.C12000	.8333	2.498+14	2.278+10	-25.894	1.094-04	9.902	2.273+10	-25.891	1.092-04	9.905
.C18000	.5556	1.666+14	5.326+09	-24.316	5.756-05	10.600	5.312+09	-24.313	5.741-05	10.603
.C27000	.3704	1.110+14	1.162+09	-22.663	2.826-05	11.372	1.158+09	-22.659	2.816-05	11.376
.C40000	.2500	7.495+13	2.563+08	-21.022	1.368-05	12.160	2.553+08	-21.018	1.363-05	12.164
.C50000	.2000	5.996+13	1.077+08	-20.081	8.981-06	12.617	1.073+08	-20.076	8.948-06	12.621
.C65000	.1538	4.612+13	3.857+07	-18.966	5.436-06	13.162	3.840+07	-18.961	5.412-06	13.167

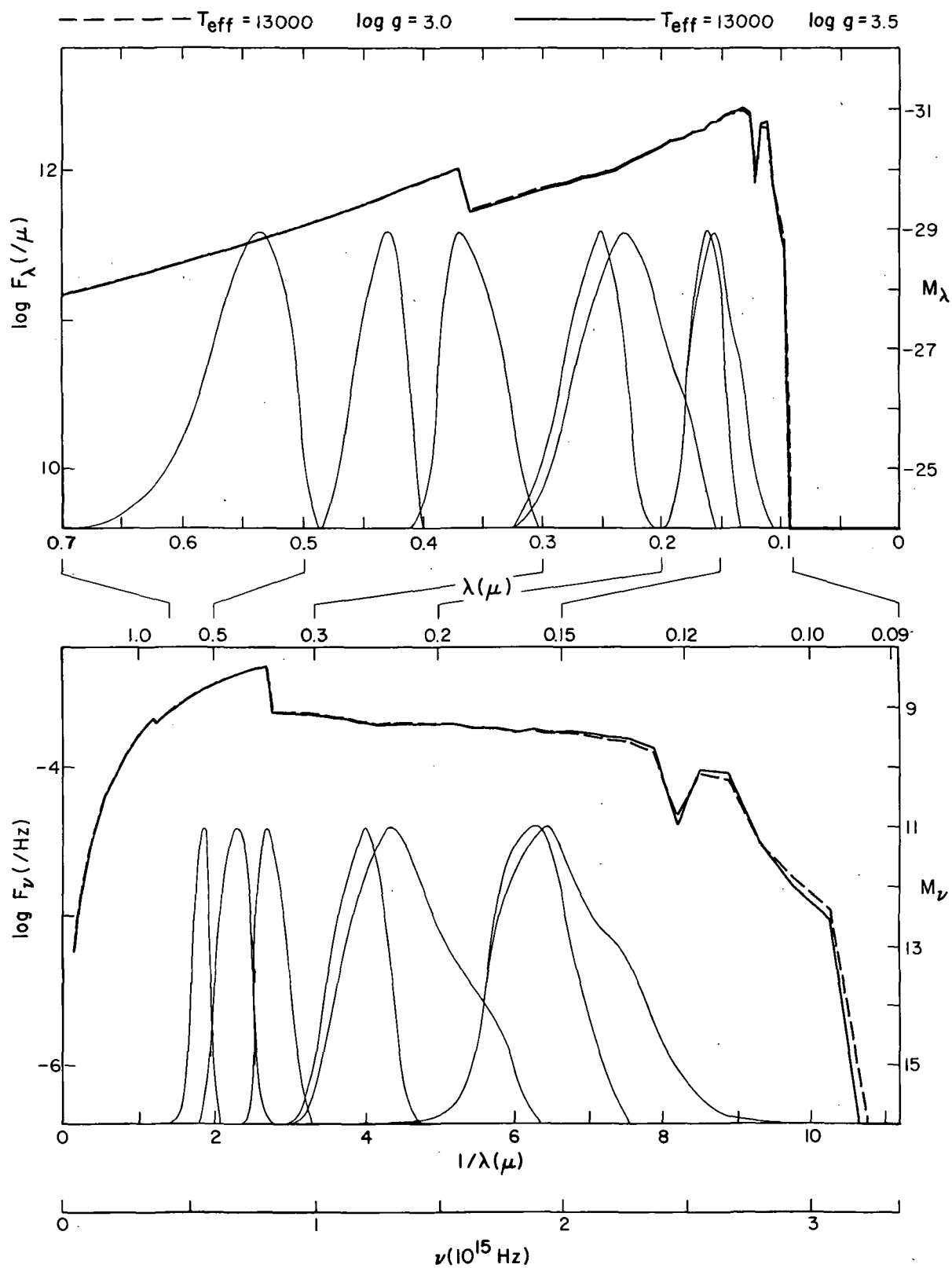


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.0515	19.4175	5.821+15	6.399+01	-4.515	5.661-16	38.118	7.963+01	-4.753	7.045-16	37.880			
.0540	18.5185	5.552+15	2.446+02	-5.971	2.379-15	36.559	3.049+02	-6.210	2.966-15	36.320			
.0565	17.6991	5.306+15	8.301+02	-7.298	8.839-15	35.134	1.036+03	-7.538	1.103-14	34.893			
.0587	17.0358	5.107+15	2.221+03	-8.366	2.553-14	33.982	2.780+03	-8.610	3.195-14	33.739			
.0612	16.3399	4.899+15	6.292+03	-9.497	7.861-14	32.761	7.874+03	-9.740	9.837-14	32.518			
.0634	15.7729	4.729+15	1.465+04	-10.415	1.964-13	31.767	1.834+04	-10.658	2.459-13	31.523			
.0671	14.9031	4.468+15	5.358+04	-11.823	8.047-13	30.236	6.701+04	-12.065	1.006-12	29.993			
.0705	14.1844	4.252+15	1.561+05	-12.984	2.588-12	28.968	1.947+05	-13.223	3.228-12	28.728			
.0736	13.5870	4.073+15	3.785+05	-13.945	6.839-12	27.912	4.706+05	-14.182	8.503-12	27.676			
.0770	12.9870	3.893+15	9.170+05	-14.906	1.814-11	26.854	1.135+06	-15.137	2.245-11	26.622			
.0810	12.3457	3.701+15	2.346+06	-15.926	5.134-11	25.724	2.889+06	-16.152	6.323-11	25.498			
.0850	11.7647	3.527+15	5.456+06	-16.842	1.315-10	24.703	6.679+06	-17.062	1.610-10	24.483			
.0890	11.2360	3.368+15	1.168+07	-17.669	3.086-10	23.776	1.421+07	-17.881	3.755-10	23.564			
.0930	10.7527	3.224+15	7.740+08	-22.222	2.233-08	19.128	6.368+08	-22.010	1.837-08	19.340			
.0975	10.2564	3.075+15	3.614+10	-26.395	1.146-06	14.852	2.080+10	-25.795	6.596-07	15.452			
.1025	9.7561	2.925+15	5.924+10	-26.932	2.076-06	14.207	3.492+10	-26.358	1.224-06	14.781			
.1075	9.3023	2.789+15	1.680+11	-28.063	6.476-06	12.972	1.386+11	-27.854	5.343-06	13.181			
.1125	8.8889	2.665+15	1.177+12	-30.177	4.969-05	10.759	1.196+12	-30.194	5.049-05	10.742			
.1175	8.5106	2.551+15	1.038+12	-30.040	4.780-05	10.801	9.711+11	-29.968	4.472-05	10.874			
.1220	8.1967	2.457+15	2.562+11	-28.521	1.272-05	12.239	1.614+11	-28.020	8.013-06	12.740			
.1270	7.8740	2.361+15	1.492+12	-30.434	8.027-05	10.239	1.458+12	-30.409	7.844-05	10.264			
.1325	7.5472	2.263+15	1.680+12	-30.563	9.838-05	10.018	1.707+12	-30.581	9.996-05	10.000			
.1375	7.2727	2.180+15	1.607+12	-30.515	1.013-04	9.985	1.636+12	-30.534	1.032-04	9.966			
.1422	7.0323	2.108+15	1.589+12	-30.503	1.072-04	9.925	1.617+12	-30.522	1.091-04	9.906			
.1482	6.7476	2.023+15	1.526+12	-30.459	1.118-04	9.879	1.546+12	-30.473	1.133-04	9.865			
.1547	6.4641	1.938+15	1.376+12	-30.347	1.098-04	9.898	1.397+12	-30.363	1.115-04	9.882			
.1598	6.2578	1.876+15	1.368+12	-30.340	1.165-04	9.834	1.379+12	-30.349	1.175-04	9.825			
.1649	6.0643	1.818+15	1.211+12	-30.208	1.098-04	9.898	1.219+12	-30.215	1.106-04	9.891			
.1730	5.7803	1.733+15	1.190+12	-30.189	1.188-04	9.813	1.199+12	-30.197	1.197-04	9.805			
.1830	5.4645	1.638+15	1.076+12	-30.080	1.202-04	9.800	1.085+12	-30.089	1.212-04	9.791			
.1930	5.1813	1.553+15	1.037+12	-30.039	1.288-04	9.725	1.039+12	-30.042	1.291-04	9.723			
.2015	4.9628	1.488+15	9.430+11	-29.936	1.277-04	9.734	9.460+11	-29.940	1.281-04	9.731			
.2100	4.7619	1.428+15	8.786+11	-29.859	1.292-04	9.721	8.810+11	-29.862	1.296-04	9.719			
.2200	4.5455	1.363+15	7.973+11	-29.754	1.287-04	9.726	7.952+11	-29.751	1.284-04	9.729			
.2300	4.3478	1.303+15	7.287+11	-29.656	1.286-04	9.727	7.278+11	-29.655	1.284-04	9.728			
.2400	4.1667	1.249+15	6.643+11	-29.556	1.276-04	9.735	6.690+11	-29.564	1.285-04	9.727			
.2482	4.0290	1.208+15	6.492+11	-29.531	1.334-04	9.687	6.518+11	-29.535	1.339-04	9.683			
.2557	3.9168	1.172+15	6.249+11	-29.490	1.363-04	9.664	6.267+11	-29.493	1.367-04	9.661			
.2660	3.7594	1.127+15	6.144+11	-29.471	1.450-04	9.597	6.142+11	-29.471	1.450-04	9.597			
.2770	3.6101	1.082+15	5.720+11	-29.393	1.464-04	9.586	5.715+11	-29.393	1.463-04	9.587			
.2870	3.4843	1.045+15	5.556+11	-29.362	1.527-04	9.541	5.545+11	-29.360	1.524-04	9.543			
.2970	3.3670	1.009+15	5.361+11	-29.323	1.577-04	9.505	5.338+11	-29.318	1.571-04	9.510			
.3070	3.2573	9.765+14	5.143+11	-29.278	1.617-04	9.478	5.114+11	-29.272	1.608-04	9.484			
.3170	3.1546	9.457+14	4.864+11	-29.217	1.630-04	9.469	4.839+11	-29.212	1.622-04	9.475			
.3270	3.0581	9.168+14	4.640+11	-29.166	1.655-04	9.453	4.615+11	-29.160	1.646-04	9.459			
.3370	2.9674	8.896+14	4.410+11	-29.111	1.671-04	9.443	4.385+11	-29.105	1.661-04	9.449			
.3480	2.8736	8.615+14	4.192+11	-29.056	1.693-04	9.428	4.168+11	-29.050	1.684-04	9.434			
.3600	2.7778	8.328+14	3.953+11	-28.992	1.709-04	9.418	3.930+11	-28.986	1.699-04	9.425			
.3700	2.7027	8.102+14	8.576+11	-29.833	3.916-04	8.518	8.623+11	-29.839	3.938-04	8.512			
.3800	2.6316	7.889+14	7.992+11	-29.757	3.849-04	8.536	7.952+11	-29.751	3.830-04	8.542			
.3900	2.5641	7.687+14	7.715+11	-29.718	3.914-04	8.518	7.707+11	-29.717	3.910-04	8.520			
.4000	2.5000	7.495+14	7.209+11	-29.645	3.847-04	8.537	7.208+11	-29.645	3.847-04	8.537			
.4200	2.3810	7.138+14	6.265+11	-29.492	3.686-04	8.584	6.272+11	-29.494	3.690-04	8.582			
.4400	2.2727	6.813+14	5.436+11	-29.338	3.510-04	8.637	5.435+11	-29.338	3.510-04	8.637			
.4600	2.1739	6.517+14	4.801+11	-29.203	3.389-04	8.675	4.810+11	-29.205	3.395-04	8.673			
.4800	2.0833	6.246+14	4.171+11	-29.051	3.206-04	8.735	4.165+11	-29.049	3.201-04	8.737			
.5000	2.0000	5.996+14	3.718+11	-28.926	3.100-04	8.771	3.720+11	-28.926	3.102-04	8.771			
.5200	1.9231	5.765+14	3.290+11	-28.793	2.967-04	8.819	3.291+11	-28.793	2.968-04	8.819			
.5400	1.8519	5.552+14	2.924+11	-28.665	2.844-04	8.865	2.924+11	-28.665	2.844-04	8.865			
.5600	1.7857	5.353+14	2.608+11	-28.541	2.728-04	8.910	2.607+11	-28.540	2.727-04	8.911			
.5800	1.7241	5.169+14	2.333+11	-28.420	2.618-04	8.955	2.332+11	-28.419	2.617-04	8.956			
.6050	1.6529	4.955+14	2.040+11	-28.274	2.491-04	9.009	2.039+11	-28.274	2.489-04	9.010			
.6350	1.5748	4.721+14	1.747+11	-28.106	2.350-04	9.072	1.745+11	-28.104	2.347-04	9.074			
.6650	1.5038	4.508+14	1.496+11	-27.937	2.207-04	9.141	1.493+11	-27.935	2.202-04	9.143			
.6950	1.4388	4.314+14	1.304+11	-27.788	2.101-04	9.194	1.302+11	-27.787	2.098-04	9.196			
.7250	1.3793	4.135+14	1.135+11	-27.637	1.990-04	9.253	1.134+11	-27.637	1.988-04	9.254			
.7550	1.3245	3.971+14	9.938+10	-27.493	1.890-04	9.309	9.924+10	-27.492	1.887-04	9.311			
.7850	1.2739	3.819+14	8.736+10	-27.353	1.796-04	9.364	8.724+10	-27.352	1.793-04	9.366			
.8100	1.2346	3.701+14	7.872+10	-27.240	1.723-04	9.409	7.861+10	-27.239	1.720-04	9.411			
.8350	1.1976	3.590+14	8.201+10	-27.285	1.907-04	9.299	8.206+10	-27.285	1.908-04	9.298			
.9000	1.1111	3.331+14	6.334+10	-27.004	1.711-04	9.417	6.334+10	-27.004	1.711-04	9.417			
1.0000	1.0000	2.998+14	4.364+10	-26.600	1.456-04	9.592	4.362+10	-26.599	1.455-04	9.593			
1.2000	.8333	2.498+14	2.271+10	-25.891	1.091-04	9.906	2.269+10	-25.890	1.090-04	9.907			
1.6000	.5556	1.666+14	5.306+09	-24.312	5.734-05	10.604	5.302+09	-24.311	5.730-05	10.605			
2.7000	.3704	1.110+14	1.156+09	-22.657	2.811-05	11.378	1.154+09	-22.656	2.806-05	11.380			
4.0000	.2500	7.495+13	2.548+08	-21.015	1.360-05	12.166	2.545+08	-21.014	1.358-05	12.168			
5.0000	.2000	5.996+13	1.071+08	-20.074	8.931-06	12.623	1.070+08	-20.073	8.923-06	12.624			
6.5000	.1538	4.612+13	3.832+07	-18.959	5.400-06	13.169	3.828+07	-18.957	5.395-06	13.170			

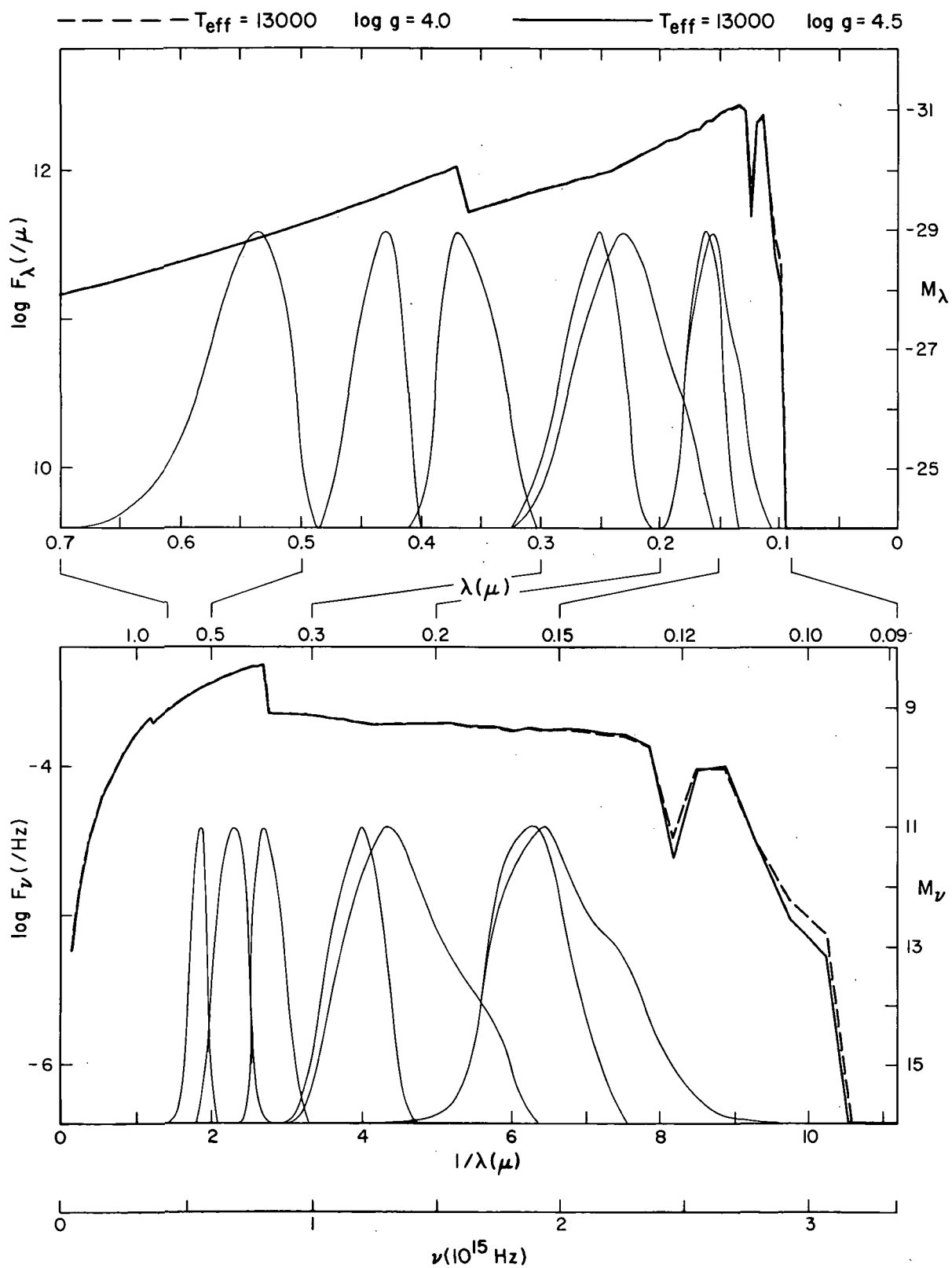




TEFF = 13000					LOG G = 2.0		TEFF = 13000					LOG G = 2.5	
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)			
.0515	19.4175	5.821+15	4.328+03	-9.091	3.829-14	33.542	2.707+03	-8.581	2.395-14	34.052			
.0540	18.5185	5.552+15	1.456+04	-10.408	1.416-13	32.122	9.010+03	-9.887	8.764-14	32.643			
.0565	17.6991	5.306+15	4.278+04	-11.578	4.555-13	30.854	2.655+04	-11.060	2.827-13	31.372			
.0587	17.0358	5.107+15	9.491+04	-12.443	1.091-12	29.906	6.010+04	-11.947	6.908-13	30.402			
.0612	16.3399	4.899+15	2.439+05	-13.468	3.047-12	48.790	1.535+05	-12.965	1.918-12	29.293			
.0634	15.7729	4.729+15	4.883+05	-14.222	6.547-12	47.960	3.125+05	-13.737	4.190-12	28.444			
.0671	14.9031	4.468+15	1.419+06	-15.380	2.131-11	46.678	9.321+05	-14.924	1.400-11	27.135			
.0705	14.1844	4.252+15	3.464+06	-16.349	5.743-11	45.602	2.313+06	-15.910	3.835-11	26.041			
.0736	13.5870	4.073+15	7.161+06	-17.137	1.294-10	44.720	4.870+06	-16.719	8.800-11	25.139			
.0770	12.9870	3.893+15	1.511+07	-17.948	2.988-10	43.811	1.036+07	-17.538	2.049-10	24.221			
.0810	12.3457	3.701+15	3.255+07	-18.781	7.124-10	42.868	2.273+07	-18.391	4.974-10	23.258			
.0850	11.7647	3.527+15	6.487+07	-19.530	1.563-09	42.015	4.607+07	-19.159	1.110-09	22.386			
.0890	11.2360	3.368+15	1.233+08	-20.227	3.258-09	41.218	8.826+07	-19.864	2.332-09	21.581			
.0930	10.7527	3.224+15	1.171+11	-27.671	3.378-06	43.678	4.519+10	-26.638	1.304-06	14.712			
.0975	10.2564	3.075+15	3.855+11	-28.965	1.222-05	42.282	3.769+11	-28.941	1.195-05	12.306			
.1025	9.7561	2.925+15	6.066+11	-29.457	2.126-05	41.681	5.657+11	-29.381	1.982-05	11.757			
.1075	9.3023	2.789+15	7.461+11	-29.682	2.876-05	41.353	7.764+11	-29.725	2.993-05	11.310			
.1125	8.8889	2.665+15	1.465+12	-30.415	6.185-05	40.522	1.710+12	-30.582	7.219-05	10.354			
.1175	8.5106	2.551+15	1.593+12	-30.506	7.336-05	40.336	1.790+12	-30.632	8.243-05	10.210			
.1220	8.1967	2.457+15	1.005+12	-30.005	4.990-05	40.755	9.953+11	-29.995	4.941-05	10.765			
.1270	7.8740	2.361+15	1.926+12	-30.712	1.036-04	9.961	2.152+12	-30.832	1.158-04	9.841			
.1325	7.5472	2.263+15	2.161+12	-30.837	1.266-04	9.744	2.363+12	-30.934	1.384-04	9.647			
.1375	7.2727	2.180+15	2.117+12	-30.814	1.335-04	9.686	2.288+12	-30.899	1.443-04	9.602			
.1422	7.0323	2.108+15	2.161+12	-30.837	1.458-04	9.591	2.295+12	-30.902	1.548-04	9.526			
.1482	6.7476	2.023+15	2.159+12	-30.836	1.582-04	9.502	2.251+12	-30.881	1.649-04	9.457			
.1547	6.4641	1.938+15	2.015+12	-30.761	1.609-04	9.484	2.063+12	-30.786	1.647-04	9.458			
.1598	6.2578	1.876+15	2.038+12	-30.773	1.736-04	9.401	2.070+12	-30.790	1.763-04	9.384			
.1649	6.0643	1.818+15	1.875+12	-30.683	1.701-04	9.423	1.877+12	-30.684	1.702-04	9.422			
.1730	5.7803	1.733+15	1.847+12	-30.666	1.844-04	9.336	1.833+12	-30.658	1.830-04	9.344			
.1830	5.4645	1.638+15	1.676+12	-30.561	1.872-04	9.319	1.651+12	-30.544	1.844-04	9.335			
.1930	5.1813	1.553+15	1.665+12	-30.554	2.069-04	9.211	1.616+12	-30.521	2.008-04	9.243			
.2015	4.9628	1.488+15	1.543+12	-30.471	2.090-04	9.200	1.479+12	-30.425	2.003-04	9.246			
.2100	4.7619	1.428+15	1.446+12	-30.400	2.127-04	9.181	1.377+12	-30.347	2.026-04	9.234			
.2200	4.5455	1.363+15	1.348+12	-30.324	2.176-04	9.156	1.270+12	-30.260	2.050-04	9.220			
.2300	4.3478	1.303+15	1.237+12	-30.231	2.183-04	9.152	1.158+12	-30.159	2.043-04	9.224			
.2400	4.1667	1.249+15	1.123+12	-30.126	2.158-04	9.165	1.046+12	-30.049	2.010-04	9.242			
.2482	4.0250	1.208+15	1.087+12	-30.091	2.234-04	9.127	1.013+12	-30.014	2.082-04	9.204			
.2557	3.9168	1.172+15	1.042+12	-30.045	2.273-04	9.109	9.706+11	-29.968	2.117-04	9.186			
.2660	3.7594	1.127+15	1.016+12	-30.017	2.398-04	9.050	9.465+11	-29.940	2.234-04	9.127			
.2770	3.6101	1.082+15	9.426+11	-29.936	2.412-04	9.044	8.771+11	-29.858	2.245-04	9.122			
.2870	3.4843	1.045+15	9.024+11	-29.888	2.479-04	9.014	8.410+11	-29.812	2.311-04	9.091			
.2970	3.3670	1.009+15	8.601+11	-29.836	2.531-04	8.992	8.032+11	-29.762	2.363-04	9.066			
.3070	3.2573	9.765+14	8.177+11	-29.781	2.571-04	8.975	7.644+11	-29.708	2.403-04	9.048			
.3170	3.1546	9.457+14	7.660+11	-29.711	2.568-04	8.976	7.166+11	-29.638	2.402-04	9.049			
.3270	3.0581	9.168+14	7.239+11	-29.649	2.582-04	8.970	6.782+11	-29.578	2.419-04	9.041			
.3370	2.9674	8.896+14	6.822+11	-29.585	2.584-04	8.969	6.398+11	-29.515	2.424-04	9.039			
.3480	2.8736	8.615+14	6.419+11	-29.519	2.593-04	8.965	6.025+11	-29.450	2.434-04	9.034			
.3600	2.7778	8.328+14	5.988+11	-29.443	2.589-04	8.967	5.632+11	-29.377	2.435-04	9.034			
.3700	2.7027	8.102+14	5.488+11	-29.943	4.333-04	8.408	1.001+12	-30.001	4.571-04	8.350			
.3800	2.6316	7.889+14	8.873+11	-29.870	4.274-04	8.423	9.327+11	-29.924	4.493-04	8.369			
.3900	2.5641	7.687+14	8.359+11	-29.805	4.241-04	8.431	8.784+11	-29.859	4.457-04	8.377			
.4000	2.5000	7.495+14	7.825+11	-29.734	4.176-04	8.448	8.198+11	-29.784	4.375-04	8.397			
.4200	2.3810	7.138+14	6.856+11	-29.590	4.034-04	8.486	7.137+11	-29.634	4.199-04	8.442			
.4400	2.2727	6.813+14	6.020+11	-29.449	3.888-04	8.526	6.227+11	-29.486	4.021-04	8.489			
.4600	2.1739	6.517+14	5.315+11	-29.314	3.751-04	8.565	5.475+11	-29.346	3.864-04	8.532			
.4800	2.0833	6.246+14	4.699+11	-29.180	3.611-04	8.606	4.810+11	-29.205	3.697-04	8.580			
.5000	2.0000	5.996+14	4.172+11	-29.051	3.479-04	8.646	4.259+11	-29.073	3.552-04	8.624			
.5200	1.9231	5.765+14	3.714+11	-28.925	3.350-04	8.687	3.776+11	-28.943	3.406-04	8.669			
.5400	1.8519	5.552+14	3.315+11	-28.801	3.224-04	8.729	3.360+11	-28.816	3.268-04	8.714			
.5600	1.7857	5.353+14	2.968+11	-28.681	3.105-04	8.770	2.999+11	-28.692	3.137-04	8.759			
.5800	1.7241	5.169+14	2.665+11	-28.564	2.990-04	8.811	2.686+11	-28.573	3.014-04	8.802			
.6050	1.6529	4.955+14	2.338+11	-28.422	2.855-04	8.861	2.349+11	-28.427	2.868-04	8.856			
.6350	1.5748	4.721+14	2.008+11	-28.257	2.701-04	8.921	2.012+11	-28.259	2.706-04	8.919			
.6650	1.5038	4.508+14	1.734+11	-28.098	2.558-04	8.980	1.732+11	-28.096	2.555-04	8.982			
.6950	1.4388	4.314+14	1.505+11	-27.944	2.425-04	9.038	1.502+11	-27.942	2.420-04	9.040			
.7250	1.3793	4.135+14	1.312+11	-27.795	2.300-04	9.096	1.307+11	-27.791	2.292-04	9.100			
.7550	1.3245	3.971+14	1.150+11	-27.652	2.187-04	9.151	1.143+11	-27.645	2.173-04	9.157			
.7850	1.2739	3.819+14	1.011+11	-27.512	2.078-04	9.206	1.005+11	-27.505	2.066-04	9.212			
.8100	1.2346	3.701+14	9.115+10	-27.399	1.995-04	9.250	9.047+10	-27.391	1.980-04	9.258			
.8350	1.1976	3.590+14	8.917+10	-27.376	2.074-04	9.208	9.056+10	-27.392	2.106-04	9.191			
.9000	1.1111	3.331+14	6.906+10	-27.098	1.866-04	9.323	6.987+10	-27.111	1.888-04	9.310			
1.0000	1.0000	2.998+14	4.792+10	-26.701	1.598-04	9.491	4.823+10	-26.708	1.609-04	9.484			
1.2000	.8333	2.498+14	2.515+10	-26.001	1.208-04	9.795	2.514+10	-26.001	1.208-04	9.795			
1.8000	.5556	1.666+14	1.537+09	-24.415	6.308-05	10.500	5.819+09	-24.412	6.285-05	10.504			
2.7000	.3704	1.110+14	1.273+09	-22.762	3.096-05	11.273	1.265+09	-22.755	3.076-05	11.280			
4.0000	.2500	7.495+13	2.810+08	-21.122	1.500-05	12.060	2.786+08	-21.112	1.487-05	12.069			
5.0000	.2000	5.996+13	1.180+08	-20.180	9.840-06	12.517	1.169+08	-20.170	9.748-06	12.528			
6.5000	.1538	4.612+13	4.223+07	-19.064	5.952-06	13.063	4.182+07	-19.053	5.894-06	13.075			



TEFF = 13000				LOG G = 3.0				TEFF = 13000				LOG G = 3.5			
LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	K(LAMBDA)	F(NU)	K(NU)	F(LAMBDA)	K(LAMBDA)	F(NU)	K(NU)	F(LAMBDA)	K(LAMBDA)	F(NU)	K(NU)	F(NU)
.6515	19.4175	5.821+15	2.170+03	-8.341	1.920-14	34.292	1.824+03	-8.153	1.614-14	34.480					
.6540	18.5185	5.552+15	7.164+03	-9.638	6.968-14	32.892	5.979+03	-9.442	5.816-14	33.089					
.6565	17.6991	5.306+15	2.107+04	-10.809	2.244-13	31.623	1.753+04	-10.609	1.867-13	31.822					
.6587	17.0358	5.107+15	4.829+04	-11.710	5.550-13	30.639	4.071+04	-11.524	4.679-13	30.825					
.6612	16.3399	4.899+15	1.222+05	-12.718	1.527-12	29.541	1.022+05	-12.524	1.277-12	29.735					
.6634	15.7729	4.729+15	2.504+05	-13.497	3.357-12	28.685	2.112+05	-13.312	2.832-12	28.870					
.6671	14.9031	4.468+15	7.541+05	-14.694	1.133-11	27.365	6.437+05	-14.522	9.667-12	27.537					
.6705	14.1844	4.252+15	1.882+06	-15.687	3.120-11	26.265	1.619+06	-15.523	2.684-11	26.428					
.6736	13.5870	4.073+15	3.984+06	-16.501	7.199-11	25.357	3.466+06	-16.350	6.263-11	25.508					
.6770	12.9870	3.893+15	8.473+06	-17.320	1.676-10	24.440	7.430+06	-17.177	1.469-10	24.582					
.6810	12.3457	3.701+15	1.872+07	-18.181	4.097-10	23.469	1.665+07	-18.054	3.644-10	23.596					
.6850	11.7647	3.527+15	3.816+07	-18.954	9.197-10	22.591	3.444+07	-18.843	8.300-10	22.702					
.6890	11.2360	3.368+15	7.320+07	-19.661	1.934-09	21.784	6.665+07	-19.560	1.761-09	21.886					
.6930	10.7527	3.224+15	1.445+10	-25.400	4.169-07	15.950	5.683+09	-24.386	1.640-07	16.963					
.6975	10.2544	3.075+15	3.498+11	-28.860	1.109-05	12.387	2.987+11	-28.688	9.472-06	12.559					
.1025	9.7561	2.925+15	5.191+11	-29.288	1.819-05	11.850	4.496+11	-29.132	1.576-05	12.006					
.1075	9.3023	2.789+15	8.068+11	-29.767	3.110-05	11.268	8.193+11	-29.784	3.158-05	11.251					
.1125	8.8889	2.665+15	1.946+12	-30.723	8.215-05	10.213	2.136+12	-30.824	9.017-05	10.112					
.1175	8.5106	2.551+15	1.953+12	-30.727	8.994-05	10.115	2.052+12	-30.780	9.450-05	10.061					
.1220	8.1967	2.457+15	9.319+11	-29.923	4.627-05	10.837	8.161+11	-29.779	4.052-05	10.981					
.1270	7.8740	2.361+15	2.334+12	-30.920	1.256-04	9.753	2.454+12	-30.975	1.320-04	9.698					
.1325	7.5472	2.263+15	2.521+12	-31.004	1.476-04	9.577	2.630+12	-31.050	1.540-04	9.531					
.1375	7.2727	2.180+15	2.414+12	-30.957	1.522-04	9.544	2.502+12	-30.996	1.578-04	9.505					
.1422	7.0323	2.108+15	2.391+12	-30.946	1.613-04	9.481	2.457+12	-30.976	1.657-04	9.452					
.1482	6.7476	2.023+15	2.314+12	-30.911	1.695-04	9.427	2.356+12	-30.930	1.726-04	9.407					
.1541	6.4641	1.938+15	2.098+12	-30.805	1.675-04	9.440	2.123+12	-30.817	1.695-04	9.427					
.1598	6.2578	1.876+15	2.090+12	-30.800	1.780-04	9.374	2.100+12	-30.806	1.789-04	9.369					
.1649	6.0643	1.818+15	1.878+12	-30.684	1.703-04	9.422	1.878+12	-30.684	1.703-04	9.422					
.1730	5.7803	1.733+15	1.823+12	-30.652	1.820-04	9.350	1.817+12	-30.648	1.814-04	9.353					
.1830	5.4645	1.638+15	1.638+12	-30.536	1.830-04	9.344	1.632+12	-30.532	1.823-04	9.348					
.1930	5.1813	1.553+15	1.585+12	-30.500	1.969-04	9.264	1.566+12	-30.487	1.946-04	9.277					
.2015	4.9628	1.488+15	1.443+12	-30.398	1.954-04	9.273	1.422+12	-30.382	1.926-04	9.288					
.2100	4.7619	1.428+15	1.340+12	-30.318	1.971-04	9.263	1.318+12	-30.300	1.939-04	9.281					
.2200	4.5455	1.363+15	1.228+12	-30.223	1.983-04	9.257	1.202+12	-30.200	1.941-04	9.280					
.2300	4.3478	1.303+15	1.117+12	-30.120	1.971-04	9.263	1.093+12	-30.097	1.929-04	9.287					
.2400	4.1667	1.249+15	1.007+12	-30.008	1.935-04	9.283	9.872+11	-29.986	1.897-04	9.305					
.2482	4.0290	1.208+15	9.752+11	-29.973	2.004-04	9.245	9.541+11	-29.949	1.961-04	9.269					
.2557	3.9108	1.172+15	9.337+11	-29.926	2.036-04	9.228	9.129+11	-29.901	1.991-04	9.252					
.2660	3.7594	1.127+15	9.094+11	-29.897	2.146-04	9.171	8.875+11	-29.870	2.095-04	9.197					
.2770	3.6101	1.082+15	8.423+11	-29.814	2.156-04	9.166	8.216+11	-29.787	2.103-04	9.193					
.2870	3.4843	1.045+15	8.081+11	-29.769	2.220-04	9.134	7.884+11	-29.742	2.166-04	9.161					
.2970	3.3670	1.009+15	7.721+11	-29.719	2.272-04	9.109	7.528+11	-29.692	2.215-04	9.137					
.3070	3.2573	9.765+14	7.350+11	-29.666	2.311-04	9.091	7.166+11	-29.638	2.253-04	9.118					
.3170	3.1546	9.457+14	6.895+11	-29.596	2.311-04	9.090	6.726+11	-29.569	2.255-04	9.117					
.3270	3.0581	9.168+14	6.529+11	-29.537	2.329-04	9.082	6.371+11	-29.511	2.272-04	9.109					
.3370	2.9674	8.896+14	6.163+11	-29.474	2.335-04	9.079	6.016+11	-29.448	2.279-04	9.106					
.3480	2.8736	8.615+14	5.808+11	-29.410	2.346-04	9.074	5.671+11	-29.384	2.291-04	9.100					
.3600	2.7778	8.328+14	5.433+11	-29.338	2.349-04	9.073	5.309+11	-29.313	2.295-04	9.098					
.3700	2.7027	8.102+14	1.027+12	-30.029	4.690-04	8.322	1.040+12	-30.043	4.749-04	8.308					
.3800	2.6316	7.889+14	9.534+11	-29.948	4.592-04	8.345	9.617+11	-29.958	4.632-04	8.336					
.3900	2.5641	7.687+14	8.989+11	-29.884	4.561-04	8.352	9.080+11	-29.895	4.607-04	8.342					
.4000	2.5000	7.495+14	8.373+11	-29.807	4.469-04	8.375	8.451+11	-29.817	4.510-04	8.364					
.4200	2.3810	7.138+14	7.266+11	-29.653	4.275-04	8.423	7.318+11	-29.661	4.306-04	8.415					
.4400	2.2727	6.813+14	6.315+11	-29.501	4.078-04	8.474	6.346+11	-29.506	4.098-04	8.469					
.4600	2.1739	6.517+14	5.544+11	-29.360	3.913-04	8.519	5.572+11	-29.365	3.933-04	8.513					
.4800	2.0833	6.246+14	4.850+11	-29.214	3.727-04	8.571	4.856+11	-29.216	3.732-04	8.570					
.5000	2.0000	5.996+14	4.293+11	-29.082	3.580-04	8.615	4.302+11	-29.084	3.587-04	8.613					
.5200	1.9231	5.765+14	3.798+11	-28.949	3.426-04	8.663	3.802+11	-28.950	3.429-04	8.662					
.5400	1.8519	5.552+14	3.374+11	-28.820	3.282-04	8.710	3.374+11	-28.820	3.282-04	8.710					
.5600	1.7857	5.353+14	3.008+11	-28.696	3.147-04	8.755	3.005+11	-28.695	3.143-04	8.757					
.5800	1.7241	5.169+14	2.690+11	-28.574	3.018-04	8.801	2.685+11	-28.572	3.013-04	8.803					
.6050	1.6529	4.955+14	2.349+11	-28.427	2.868-04	8.856	2.344+11	-28.425	2.862-04	8.858					
.6350	1.5748	4.721+14	2.009+11	-28.257	2.702-04	8.921	2.003+11	-28.254	2.694-04	8.924					
.6650	1.5038	4.508+14	1.726+11	-28.093	2.546-04	8.985	1.718+11	-28.088	2.534-04	8.990					
.6950	1.4388	4.314+14	1.496+11	-27.937	2.410-04	9.045	1.490+11	-27.933	2.401-04	9.049					
.7250	1.3793	4.135+14	1.301+11	-27.786	2.281-04	9.105	1.295+11	-27.781	2.271-04	9.110					
.7550	1.3245	3.971+14	1.137+11	-27.639	2.162-04	9.163	1.132+11	-27.635	2.152-04	9.168					
.7850	1.2739	3.819+14	9.987+10	-27.499	2.053-04	9.219	9.935+10	-27.493	2.042-04	9.225					
.8100	1.2346	3.701+14	8.990+10	-27.384	1.967-04	9.265	8.941+10	-27.378	1.957-04	9.271					
.8350	1.1976	3.590+14	9.109+10	-27.399	2.118-04	9.185	9.122+10	-27.400	2.121-04	9.183					
.9000	1.1111	3.331+14	7.014+10	-27.115	1.895-04	9.306	7.016+10	-27.115	1.896-04	9.306					
1.0000	1.0000	2.998+14	4.830+10	-26.710	1.611-04	9.482	4.825+10	-26.709	1.609-04	9.483					
1.2000	.8333	2.498+14	2.510+10	-25.999	1.206-04	9.797	2.503+10	-25.996	1.202-04	9.800					
1.8000	.5556	1.666+14	5.799+09	-24.408	6.267-05	10.507	5.781+09	-24.405	6.248-05	10.511					
2.7000	.3704	1.110+14	1.258+09	-22.749	3.059-05	11.286	1.253+09	-22.745	3.047-05	11.290					
4.0000	.2500	7.495+13	2.768+08	-21.105	1.477-05	12.076	2.756+08	-21.101	1.471-05	12.081					
5.0000	.2000	5.996+13	1.162+08	-20.163	9.690-06	12.534	1.157+08	-20.158	9.648-06	12.539					
6.5000	.1538	4.612+13	4.154+07	-19.046	5.854-06	13.081	4.136+07	-19.041	5.829-06	13.086					



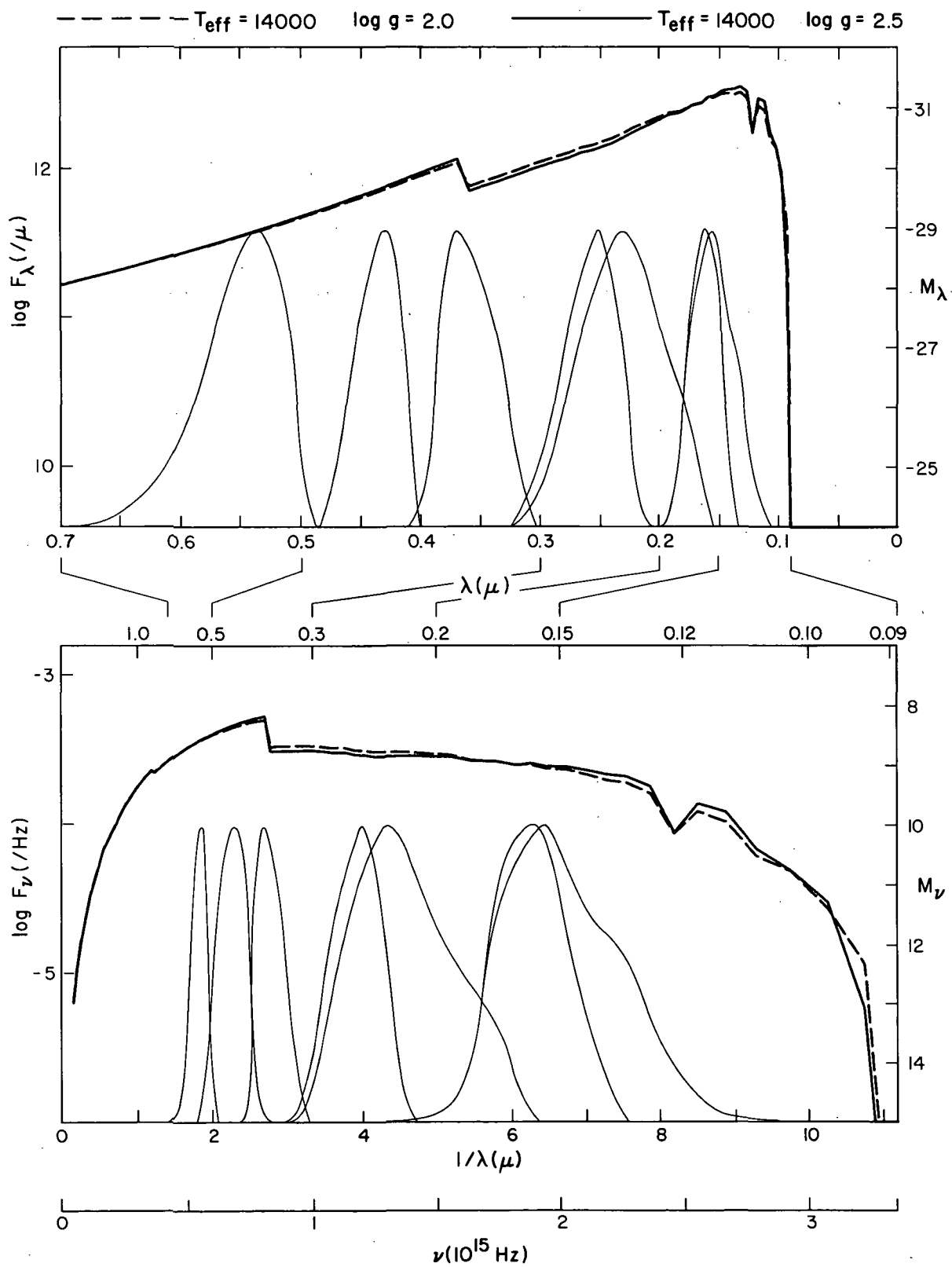
TEFF = 13000

LOG G = 4.0

TEFF = 13000

LOG G = 4.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	1.667+03	-8.055	1.475-14	34.578	1.699+03	-8.075	1.503-14	34.558
.0540	18.5185	5.552+15	5.444+03	-9.340	5.295-14	33.190	5.585+03	-9.368	5.432-14	33.163
.0565	17.6991	5.306+15	1.595+04	-10.507	1.698-13	31.925	1.648+04	-10.542	1.755-13	31.889
.0587	17.0358	5.167+15	3.741+04	-11.432	4.300-13	30.916	3.909+04	-11.480	4.493-13	30.869
.0612	16.3399	4.899+15	9.359+04	-12.428	1.169-12	29.830	9.816+04	-12.480	1.226-12	29.778
.0634	15.7729	4.729+15	1.950+05	-13.225	2.615-12	28.957	2.062+05	-13.286	2.765-12	28.896
.0671	14.9031	4.468+15	6.017+05	-14.448	9.037-12	27.610	6.434+05	-14.521	9.663-12	27.537
.0705	14.1844	4.252+15	1.527+06	-15.460	2.532-11	26.492	1.646+06	-15.541	2.729-11	26.410
.0736	13.5870	4.073+15	3.304+06	-16.298	5.970-11	25.560	3.581+06	-16.385	6.471-11	25.473
.0770	12.9870	3.893+15	7.151+06	-17.136	1.414-10	24.624	7.790+06	-17.229	1.541-10	24.531
.0810	12.3457	3.701+15	1.623+07	-18.026	3.552-10	23.624	1.777+07	-18.124	3.889-10	23.525
.0850	11.7647	3.527+15	3.395+07	-18.827	8.182-10	22.718	3.729+07	-18.929	8.987-10	22.616
.0890	11.2360	3.368+15	6.619+07	-19.552	1.749-09	21.893	7.279+07	-19.655	1.923-09	21.790
.0930	10.7527	3.224+15	3.377+09	-23.821	9.743-08	17.528	2.484+09	-23.488	7.166-08	17.862
.0975	10.2564	3.075+15	2.344+11	-28.425	7.433-06	12.822	1.664+11	-28.053	5.276-06	13.194
.1025	9.7561	2.925+15	3.633+11	-28.901	1.273-05	12.238	2.657+11	-28.561	9.311-06	12.577
.1075	9.3023	2.789+15	8.174+11	-29.781	3.151-05	11.254	7.911+11	-29.746	3.649-05	11.289
.1125	8.8889	2.665+15	2.277+12	-30.893	9.613-05	10.043	2.375+12	-30.939	1.003-04	9.997
.1175	8.5106	2.551+15	2.080+12	-30.795	9.579-05	10.047	2.038+12	-30.773	9.386-05	10.069
.1220	8.1967	2.457+15	6.618+11	-29.552	3.286-05	11.208	4.865+11	-29.218	2.415-05	11.543
.1270	7.8740	2.361+15	2.517+12	-31.002	1.354-04	9.671	2.516+12	-31.002	1.354-04	9.671
.1325	7.5472	2.263+15	2.709+12	-31.082	1.586-04	9.499	2.766+12	-31.105	1.620-04	9.476
.1375	7.2727	2.180+15	2.569+12	-31.024	1.620-04	9.476	2.622+12	-31.047	1.654-04	9.454
.1422	7.0323	2.108+15	2.510+12	-30.999	1.693-04	9.428	2.556+12	-31.019	1.724-04	9.409
.1482	6.7476	2.023+15	2.392+12	-30.947	1.752-04	9.391	2.425+12	-30.962	1.777-04	9.376
.1547	6.4641	1.938+15	2.151+12	-30.832	1.717-04	9.413	2.178+12	-30.845	1.739-04	9.399
.1598	6.2578	1.876+15	2.114+12	-30.813	1.801-04	9.361	2.130+12	-30.821	1.814-04	9.353
.1649	6.0643	1.818+15	1.886+12	-30.689	1.711-04	9.417	1.897+12	-30.695	1.721-04	9.411
.1730	5.7803	1.733+15	1.821+12	-30.651	1.818-04	9.351	1.831+12	-30.657	1.828-04	9.345
.1830	5.4645	1.638+15	1.637+12	-30.535	1.829-04	9.345	1.647+12	-30.542	1.840-04	9.338
.1930	5.1813	1.553+15	1.560+12	-30.483	1.938-04	9.281	1.560+12	-30.483	1.938-04	9.281
.2015	4.9628	1.488+15	1.415+12	-30.377	1.916-04	9.294	1.416+12	-30.378	1.918-04	9.293
.2100	4.7619	1.428+15	1.311+12	-30.294	1.929-04	9.287	1.311+12	-30.294	1.929-04	9.287
.2200	4.5455	1.363+15	1.190+12	-30.189	1.921-04	9.291	1.185+12	-30.184	1.913-04	9.296
.2300	4.3478	1.303+15	1.083+12	-30.087	1.911-04	9.297	1.079+12	-30.083	1.904-04	9.301
.2400	4.1667	1.249+15	9.817+11	-29.980	1.886-04	9.311	9.830+11	-29.981	1.889-04	9.310
.2482	4.0240	1.208+15	9.470+11	-29.941	1.946-04	9.277	9.461+11	-29.940	1.944-04	9.278
.2557	3.9108	1.172+15	9.052+11	-29.892	1.974-04	9.262	9.032+11	-29.889	1.970-04	9.264
.2660	3.7594	1.127+15	8.779+11	-29.859	2.072-04	9.209	8.735+11	-29.853	2.062-04	9.214
.2770	3.6101	1.082+15	8.121+11	-29.774	2.078-04	9.206	8.074+11	-29.768	2.066-04	9.212
.2870	3.4843	1.045+15	7.792+11	-29.729	2.141-04	9.174	7.743+11	-29.722	2.127-04	9.180
.2970	3.3670	1.009+15	7.430+11	-29.677	2.186-04	9.151	7.369+11	-29.669	2.168-04	9.160
.3070	3.2573	9.765+14	7.067+11	-29.623	2.222-04	9.133	7.003+11	-29.613	2.202-04	9.143
.3170	3.1546	9.457+14	6.637+11	-29.555	2.225-04	9.132	6.579+11	-29.545	2.205-04	9.141
.3270	3.0581	9.168+14	6.286+11	-29.496	2.242-04	9.123	6.229+11	-29.486	2.222-04	9.133
.3370	2.9674	8.896+14	5.936+11	-29.434	2.249-04	9.120	5.882+11	-29.424	2.228-04	9.130
.3480	2.8736	8.615+14	5.596+11	-29.370	2.261-04	9.114	5.544+11	-29.360	2.240-04	9.125
.3600	2.7778	8.328+14	5.239+11	-29.298	2.265-04	9.112	5.190+11	-29.288	2.244-04	9.123
.3700	2.7027	8.102+14	1.049+12	-30.052	4.790-04	8.299	1.055+12	-30.058	4.818-04	8.293
.3800	2.6316	7.889+14	9.659+11	-29.962	4.652-04	8.331	9.674+11	-29.964	4.660-04	8.329
.3900	2.5641	7.687+14	9.126+11	-29.901	4.630-04	8.336	9.142+11	-29.903	4.638-04	8.334
.4000	2.5000	7.495+14	8.492+11	-29.823	4.532-04	8.359	8.507+11	-29.824	4.540-04	8.357
.4200	2.3810	7.138+14	7.345+11	-29.665	4.322-04	8.411	7.356+11	-29.667	4.328-04	8.409
.4400	2.2727	6.813+14	6.361+11	-29.509	4.108-04	8.466	6.363+11	-29.509	4.109-04	8.466
.4600	2.1739	6.517+14	5.588+11	-29.368	3.944-04	8.510	5.597+11	-29.370	3.950-04	8.508
.4800	2.0833	6.246+14	4.857+11	-29.216	3.733-04	8.570	4.852+11	-29.215	3.729-04	8.571
.5000	2.0000	5.996+14	4.307+11	-29.085	3.592-04	8.612	4.309+11	-29.086	3.593-04	8.611
.5200	1.9231	5.765+14	3.805+11	-28.951	3.432-04	8.661	3.804+11	-28.951	3.431-04	8.661
.5400	1.8519	5.552+14	3.374+11	-28.820	3.282-04	8.710	3.373+11	-28.820	3.281-04	8.710
.5600	1.7857	5.353+14	3.004+11	-28.694	3.142-04	8.757	3.002+11	-28.694	3.140-04	8.758
.5800	1.7241	5.169+14	2.683+11	-28.572	3.011-04	8.803	2.681+11	-28.571	3.008-04	8.804
.6050	1.6529	4.955+14	2.341+11	-28.424	2.858-04	8.860	2.338+11	-28.422	2.855-04	8.861
.6350	1.5748	4.721+14	2.000+11	-28.253	2.690-04	8.926	1.997+11	-28.251	2.686-04	8.927
.6650	1.5038	4.508+14	1.712+11	-28.084	2.525-04	8.994	1.707+11	-28.081	2.518-04	8.997
.6950	1.4388	4.314+14	1.486+11	-27.930	2.394-04	9.052	1.483+11	-27.928	2.389-04	9.054
.7250	1.3793	4.135+14	1.292+11	-27.778	2.265-04	9.112	1.289+11	-27.776	2.260-04	9.115
.7550	1.3245	3.971+14	1.129+11	-27.632	2.147-04	9.171	1.126+11	-27.629	2.141-04	9.173
.7850	1.2739	3.819+14	9.906+10	-27.490	2.036-04	9.228	9.881+10	-27.487	2.031-04	9.231
.8100	1.2346	3.701+14	8.914+10	-27.375	1.951-04	9.274	8.890+10	-27.372	1.946-04	9.277
.8350	1.1976	3.590+14	9.130+10	-27.401	2.123-04	9.182	9.129+10	-27.401	2.123-04	9.183
.9000	1.1111	3.331+14	7.018+10	-27.116	1.896-04	9.305	7.014+10	-27.115	1.895-04	9.306
1.0000	1.0000	2.998+14	4.822+10	-26.708	1.608-04	9.484	4.817+10	-26.707	1.607-04	9.485
1.2000	.8333	2.498+14	2.499+10	-25.994	1.200-04	9.802	2.495+10	-25.993	1.198-04	9.803
1.8000	.5556	1.666+14	5.769+09	-24.403	6.235-05	10.513	5.759+09	-24.401	6.224-05	10.515
2.7000	.3704	1.110+14	1.250+09	-22.742	3.040-05	11.293	1.247+09	-22.740	3.032-05	11.296
4.0000	.2500	7.495+13	2.749+08	-21.098	1.467-05	12.084	2.743+08	-21.096	1.464-05	12.086
5.0000	.2000	5.996+13	1.153+08	-20.155	9.615-06	12.543	1.151+08	-20.153	9.598-06	12.545
6.5000	.1538	4.612+13	4.124+07	-19.038	5.812-06	13.089	4.116+07	-19.036	5.801-06	13.091



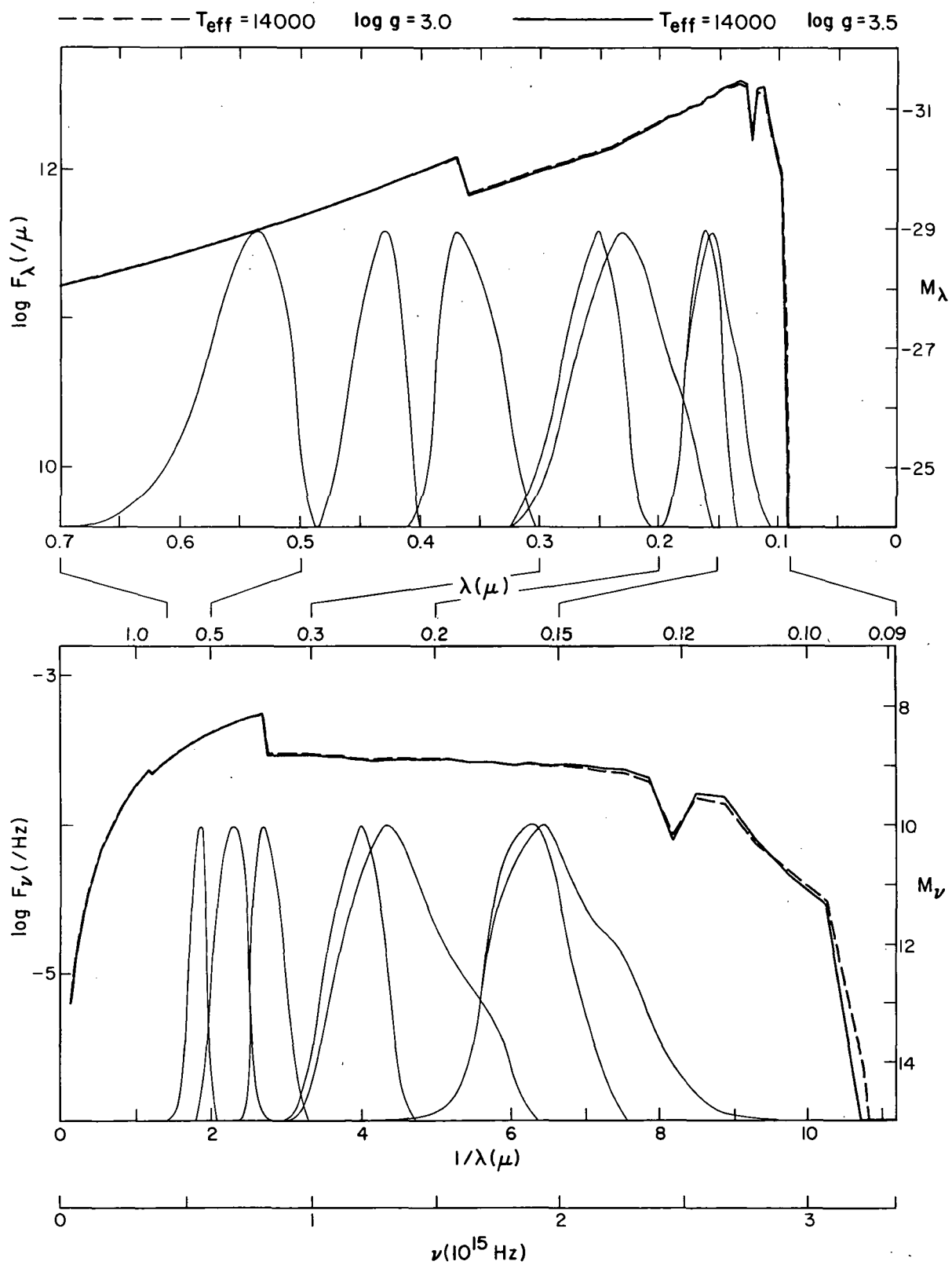
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.0515	19.4175	5.821+15	8.083+04	-12.269	7.151-13	30.364	4.388+04	-11.606	3.882-13	31.027
.0540	18.5185	5.552+15	2.521+05	-13.504	2.452-12	49.026	1.347+05	-12.823	1.310-12	29.707
.0565	17.6991	5.306+15	6.767+05	-14.576	7.206-12	47.856	3.637+05	-13.902	3.873-12	28.530
.0587	17.0358	5.107+15	1.343+06	-15.320	1.544-11	47.029	7.520+05	-14.691	8.643-12	27.658
.0612	16.3399	4.899+15	3.236+06	-16.275	4.043-11	45.983	1.793+06	-15.634	2.240-11	26.624
.0634	15.7729	4.729+15	6.014+06	-16.948	8.063-11	45.234	3.402+06	-16.329	4.561-11	25.852
.0671	14.9031	4.468+15	1.553+07	-17.978	2.332-10	44.081	9.063+06	-17.393	1.361-10	24.665
.0705	14.1844	4.252+15	3.459+07	-18.847	5.735-10	43.104	2.058+07	-18.284	3.412-10	23.667
.0736	13.5870	4.073+15	6.569+07	-19.544	1.187-09	42.314	3.999+07	-19.005	7.226-10	22.853
.0770	12.9870	3.893+15	1.279+08	-20.267	2.529-09	41.492	7.897+07	-19.744	1.562-09	22.016
.0810	12.3457	3.701+15	2.514+08	-21.001	5.502-09	40.649	1.589+08	-20.503	3.478-09	21.147
.0850	11.7647	3.527+15	4.584+08	-21.653	1.105-08	39.892	2.969+08	-21.182	7.155-09	20.363
.0890	11.2330	3.368+15	8.089+08	-22.270	2.137-08	39.175	5.305+08	-21.812	1.402-08	19.633
.0930	10.7527	3.224+15	4.023+11	-29.011	1.161-05	42.338	2.004+11	-28.255	5.782-06	13.095
.0975	10.2564	3.075+15	8.727+11	-29.852	2.767-05	41.395	9.486+11	-29.943	3.008-05	11.304
.1025	9.7561	2.925+15	1.403+12	-30.368	4.917-05	40.771	1.406+12	-30.370	4.927-05	10.768
.1075	9.3023	2.789+15	1.608+12	-30.516	6.198-05	40.519	1.772+12	-30.621	6.831-05	10.414
.1125	8.8889	2.665+15	2.488+12	-30.990	1.050-04	9.947	2.881+12	-31.149	1.216-04	9.787
.1175	8.5106	2.551+15	2.664+12	-31.064	1.227-04	9.778	2.999+12	-31.192	1.381-04	9.649
.1220	8.1967	2.457+15	1.739+12	-30.601	8.634-05	10.160	1.769+12	-30.619	8.783-05	10.141
.1270	7.8740	2.361+15	3.014+12	-31.198	1.622-04	9.475	3.335+12	-31.308	1.794-04	9.365
.1325	7.5472	2.263+15	3.275+12	-31.288	1.918-04	9.293	3.569+12	-31.381	2.090-04	9.200
.1375	7.2727	2.180+15	3.161+12	-31.250	1.993-04	9.251	3.422+12	-31.336	2.158-04	9.165
.1422	7.0323	2.108+15	3.207+12	-31.265	2.163-04	9.162	3.409+12	-31.332	2.299-04	9.096
.1482	6.7476	2.023+15	3.198+12	-31.262	2.343-04	9.076	3.329+12	-31.306	2.439-04	9.032
.1547	6.4661	1.938+15	2.991+12	-31.190	2.388-04	9.055	3.060+12	-31.214	2.443-04	9.030
.1598	6.2578	1.876+15	2.980+12	-31.186	2.538-04	8.989	3.023+12	-31.201	2.575-04	8.973
.1649	6.0643	1.818+15	2.772+12	-31.107	2.514-04	8.999	2.767+12	-31.105	2.510-04	9.001
.1730	5.7803	1.733+15	2.683+12	-31.072	2.679-04	8.930	2.658+12	-31.061	2.654-04	8.940
.1830	5.4645	1.638+15	2.433+12	-30.965	2.718-04	8.914	2.388+12	-30.945	2.668-04	8.935
.1930	5.1813	1.553+15	2.374+12	-30.939	2.950-04	8.826	2.299+12	-30.904	2.856-04	8.860
.2015	4.9628	1.488+15	2.207+12	-30.860	2.989-04	8.811	2.109+12	-30.810	2.856-04	8.860
.2100	4.7619	1.428+15	2.061+12	-30.785	3.032-04	8.796	1.955+12	-30.728	2.876-04	8.853
.2200	4.5455	1.363+15	1.918+12	-30.707	3.097-04	8.773	1.800+12	-30.638	2.906-04	8.842
.2300	4.3478	1.303+15	1.756+12	-30.611	3.099-04	8.772	1.637+12	-30.535	2.889-04	8.848
.2400	4.1667	1.249+15	1.601+12	-30.511	3.076-04	8.780	1.483+12	-30.428	2.849-04	8.863
.2482	4.0290	1.208+15	1.528+12	-30.460	3.140-04	8.758	1.416+12	-30.378	2.910-04	8.840
.2557	3.9108	1.172+15	1.453+12	-30.406	3.169-04	8.748	1.345+12	-30.322	2.933-04	8.832
.2660	3.7594	1.127+15	1.394+12	-30.361	3.290-04	8.707	1.292+12	-30.278	3.049-04	8.789
.2770	3.6101	1.082+15	1.284+12	-30.271	3.286-04	8.708	1.189+12	-30.188	3.043-04	8.792
.2870	3.4843	1.045+15	1.217+12	-30.213	3.344-04	8.689	1.127+12	-30.130	3.096-04	8.773
.2970	3.3670	1.009+15	1.144+12	-30.146	3.366-04	8.682	1.062+12	-30.065	3.125-04	8.763
.3070	3.2573	9.765+14	1.078+12	-30.082	3.389-04	8.675	1.002+12	-30.002	3.150-04	8.754
.3170	3.1546	9.457+14	1.006+12	-30.006	3.372-04	8.680	9.352+11	-29.927	3.135-04	8.759
.3270	3.0581	9.168+14	9.434+11	-29.937	3.365-04	8.683	8.787+11	-29.860	3.134-04	8.760
.3370	2.9674	8.896+14	8.839+11	-29.866	3.348-04	8.688	8.243+11	-29.790	3.123-04	8.764
.3480	2.8736	8.615+14	8.283+11	-29.795	3.346-04	8.689	7.716+11	-29.718	3.117-04	8.766
.3600	2.7778	8.328+14	7.675+11	-29.713	3.318-04	8.698	7.164+11	-29.638	3.097-04	8.773
.3700	2.7027	8.102+14	1.106+12	-30.109	5.051-04	8.242	1.175+12	-30.175	5.366-04	8.176
.3800	2.6316	7.889+14	1.031+12	-30.033	4.966-04	8.260	1.090+12	-30.094	5.250-04	8.200
.3900	2.5641	7.687+14	9.653+11	-29.962	4.897-04	8.275	1.018+12	-30.019	5.165-04	8.217
.4000	2.5000	7.495+14	9.020+11	-29.888	4.814-04	8.294	9.483+11	-29.942	5.061-04	8.239
.4200	2.3810	7.138+14	7.884+11	-29.742	4.639-04	8.334	8.230+11	-29.788	4.843-04	8.287
.4400	2.2727	6.813+14	6.913+11	-29.599	4.464-04	8.376	7.166+11	-29.638	4.628-04	8.337
.4600	2.1739	6.517+14	6.087+11	-29.461	4.296-04	8.417	6.278+11	-29.495	4.431-04	8.384
.4800	2.0833	6.246+14	5.373+11	-29.326	4.129-04	8.460	5.509+11	-29.353	4.234-04	8.433
.5000	2.0000	5.996+14	4.761+11	-29.194	3.970-04	8.503	4.862+11	-29.217	4.054-04	8.480
.5200	1.9231	5.765+14	4.231+11	-29.066	3.816-04	8.546	4.303+11	-29.084	3.881-04	8.528
.5400	1.8519	5.552+14	3.771+11	-28.941	3.668-04	8.589	3.822+11	-28.956	3.718-04	8.574
.5600	1.7857	5.353+14	3.371+11	-28.819	3.526-04	8.632	3.406+11	-28.831	3.563-04	8.621
.5800	1.7241	5.169+14	3.023+11	-28.701	3.392-04	8.674	3.045+11	-28.709	3.417-04	8.666
.6050	1.6529	4.955+14	2.647+11	-28.557	3.232-04	8.726	2.658+11	-28.561	3.245-04	8.722
.6350	1.5748	4.721+14	2.269+11	-28.390	3.052-04	8.789	2.272+11	-28.391	3.056-04	8.787
.6650	1.5038	4.508+14	1.956+11	-28.228	2.885-04	8.850	1.952+11	-28.226	2.879-04	8.852
.6950	1.4388	4.314+14	1.695+11	-28.073	2.731-04	8.909	1.689+11	-28.069	2.721-04	8.913
.7250	1.3793	4.135+14	1.475+11	-27.922	2.586-04	8.968	1.467+11	-27.916	2.572-04	8.974
.7550	1.3245	3.971+14	1.290+11	-27.776	2.453-04	9.026	1.281+11	-27.769	2.436-04	9.033
.7850	1.2739	3.819+14	1.134+11	-27.637	2.331-04	9.081	1.124+11	-27.627	2.310-04	9.091
.8100	1.2346	3.701+14	1.021+11	-27.523	2.234-04	9.127	1.011+11	-27.512	2.213-04	9.138
.8350	1.1976	3.590+14	9.830+10	-27.481	2.286-04	9.102	9.978+10	-27.498	2.321-04	9.086
.9060	1.1111	3.331+14	7.597+10	-27.202	2.053-04	9.219	7.677+10	-27.213	2.074-04	9.208
1.0000	1.0000	2.998+14	5.259+10	-26.802	1.754-04	9.390	5.286+10	-26.808	1.763-04	9.384
1.2000	.8333	2.498+14	2.749+10	-26.098	1.320-04	9.698	2.745+10	-26.096	1.319-04	9.700
1.8000	.5556	1.666+14	6.317+09	-24.501	6.827-05	10.414	6.285+09	-24.496	6.792-05	10.420
2.7000	.3704	1.110+14	1.370+09	-22.842	3.331-05	11.193	1.359+09	-22.833	3.305-05	11.202
4.0000	.2500	7.495+13	3.016+08	-21.199	1.610-05	11.983	2.985+08	-21.187	1.593-05	11.994
5.0000	.2000	5.996+13	1.266+08	-20.256	1.056-05	12.441	1.252+08	-20.244	1.044-05	12.453
6.5000	.1538	4.612+13	4.525+07	-19.139	6.377-06	12.988	4.471+07	-19.126	6.301-06	13.001





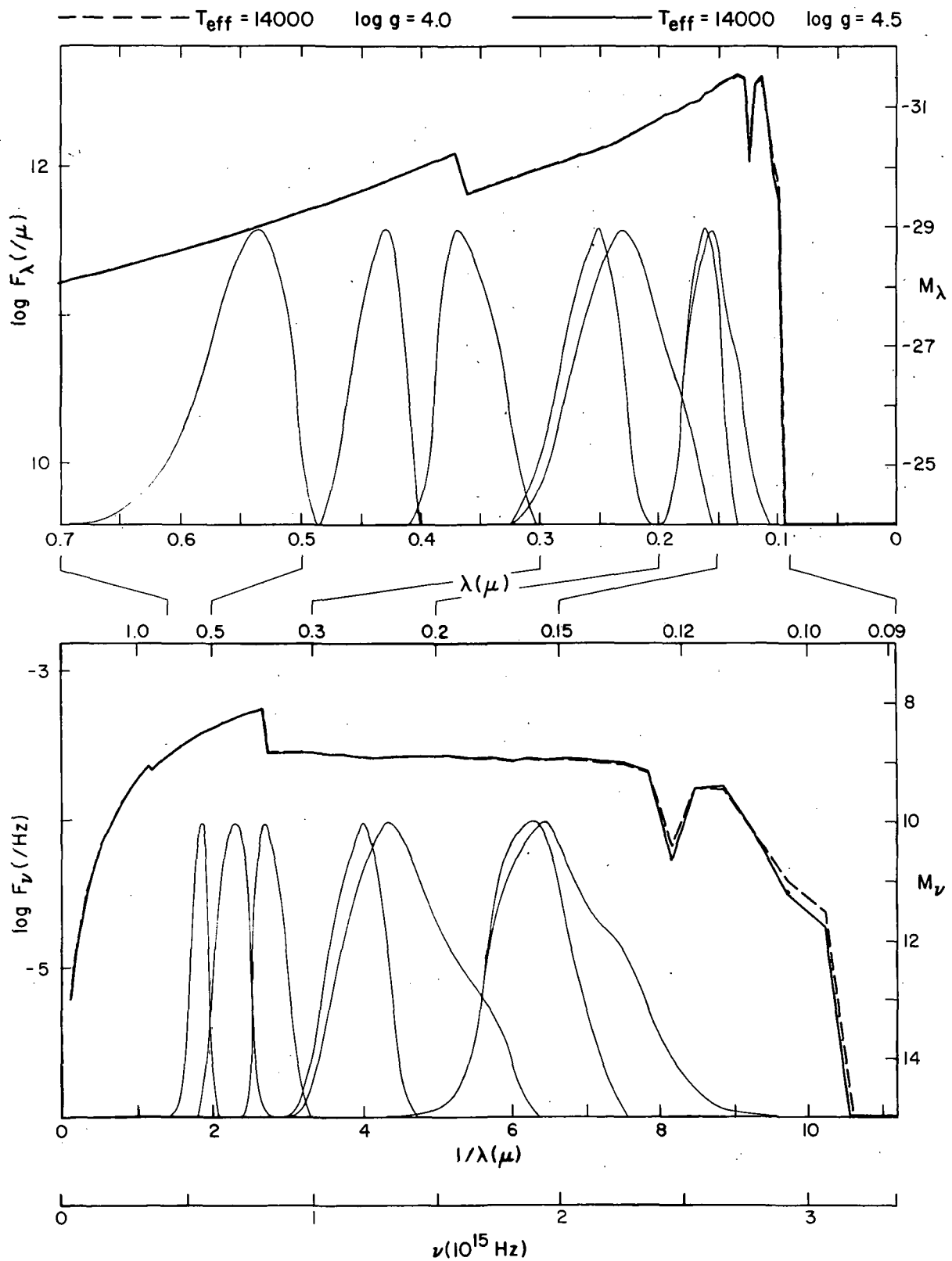
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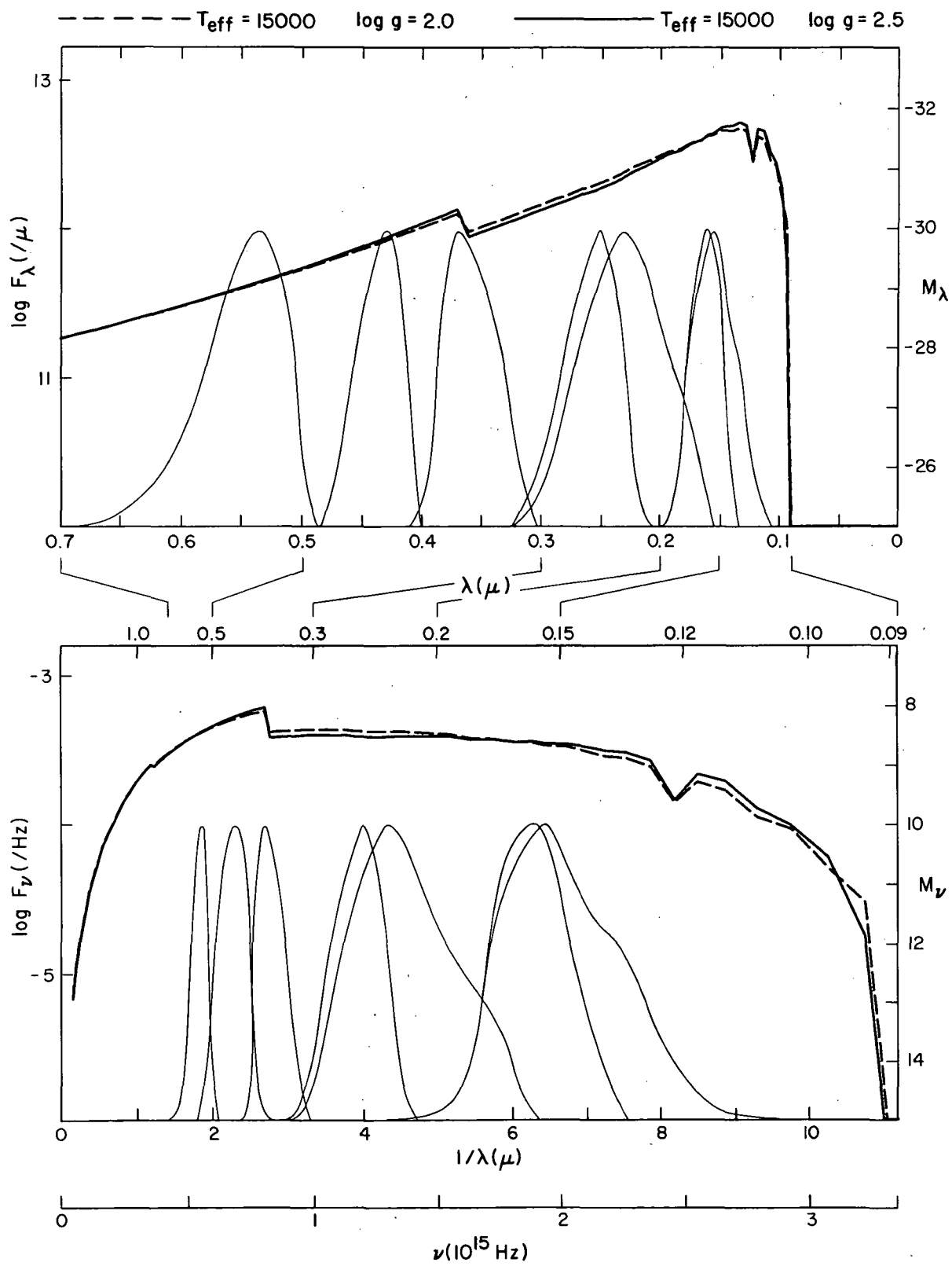
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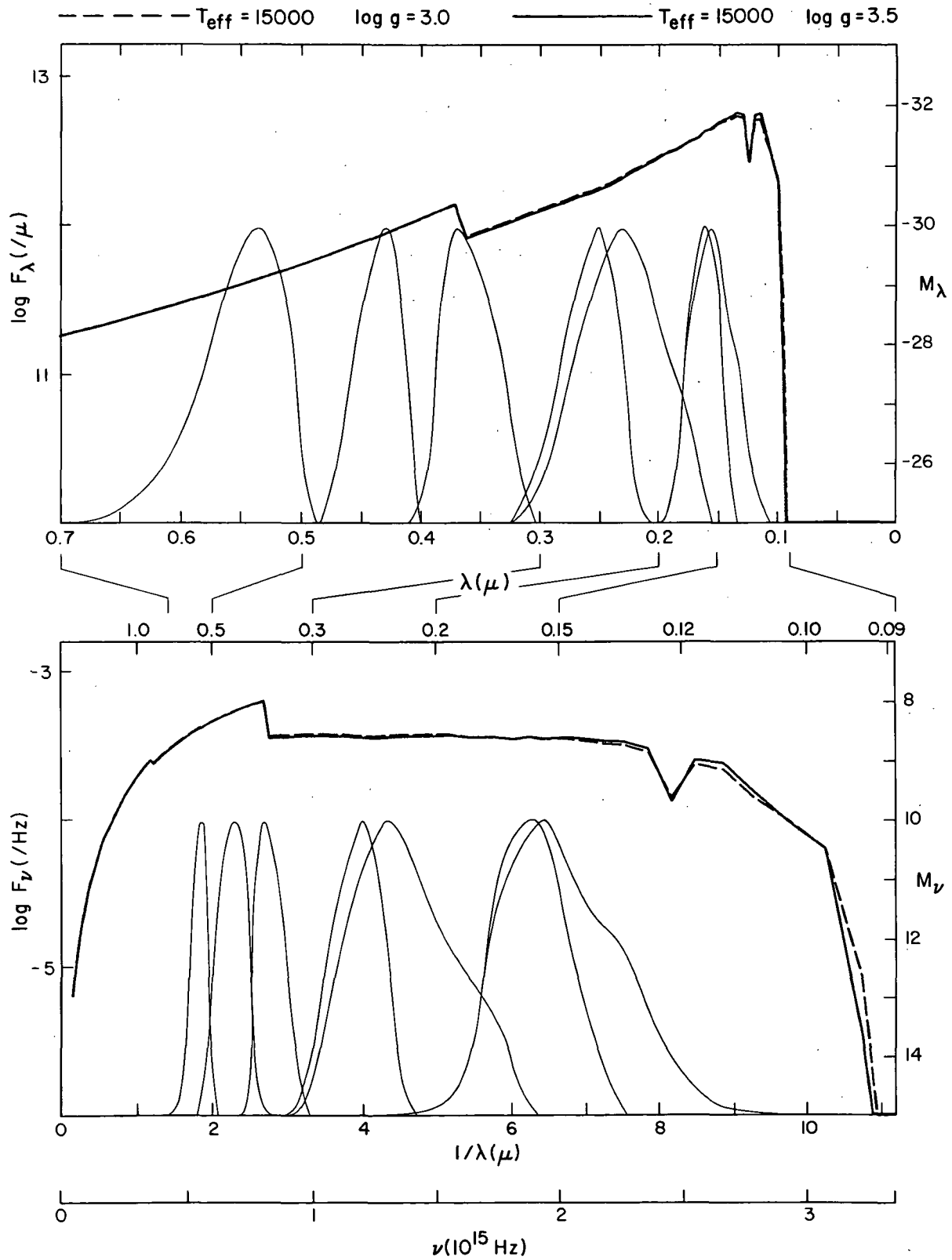
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.0515	19.4175	5.821+15	3.214+04	-11.268	2.843-13	31.365	2.769+04	-11.106	2.450-13	31.527
.0540	18.5185	5.552+15	9.738+04	-12.471	9.472-13	30.059	8.282+04	-12.295	8.056-13	30.235
.0565	17.6991	5.306+15	2.628+05	-13.549	2.798-12	48.883	2.223+05	-13.367	2.367-12	29.064
.0587	17.0358	5.107+15	5.530+05	-14.357	6.356-12	47.992	4.725+05	-14.186	5.431-12	28.163
.0612	16.3399	4.899+15	1.309+06	-15.292	1.635-11	46.966	1.107+06	-15.110	1.383-11	27.148
.0634	15.7729	4.729+15	2.509+06	-15.999	3.364-11	46.183	2.130+06	-15.821	2.856-11	26.361
.0671	14.9031	4.468+15	6.790+06	-17.080	1.020-10	44.979	5.804+06	-16.909	8.717-11	25.149
.0705	14.1844	4.252+15	1.559+07	-17.982	2.585-10	43.969	1.335+07	-17.814	2.213-10	24.137
.0736	13.5870	4.073+15	3.064+07	-18.716	5.536-10	43.142	2.638+07	-18.553	4.767-10	23.304
.0770	12.9870	3.893+15	6.082+07	-19.460	1.203-09	42.299	5.235+07	-19.297	1.035-09	22.462
.0810	12.3457	3.701+15	1.240+08	-20.234	2.714-09	41.416	1.072+08	-20.075	2.346-09	21.574
.0850	11.7647	3.527+15	2.342+08	-20.924	5.644-09	40.621	2.037+08	-20.772	4.909-09	20.772
.0890	11.2360	3.368+15	4.207+08	-21.560	1.112-08	39.885	3.664+08	-21.410	5.661-09	20.035
.0930	10.7527	3.224+15	7.988+10	-22.256	2.305-06	34.094	2.894+10	-22.154	8.349-07	15.196
.0975	10.2564	3.075+15	9.589+11	-22.954	3.041-05	31.293	8.932+11	-22.877	2.832-05	11.370
.1025	9.7561	2.925+15	1.379+12	-30.349	4.833-05	30.790	1.287+12	-30.274	4.510-05	10.864
.1075	9.3023	2.789+15	1.926+12	-30.712	7.424-05	30.323	2.045+12	-30.777	7.883-05	10.258
.1125	8.8889	2.665+15	3.265+12	-31.285	1.378-04	9.652	3.600+12	-31.391	1.520-04	9.546
.1175	8.5106	2.551+15	3.283+12	-31.291	1.512-04	9.551	3.487+12	-31.356	1.606-04	9.486
.1220	8.1967	2.457+15	1.706+12	-30.580	8.470-05	10.180	1.563+12	-30.485	7.760-05	10.275
.1270	7.8740	2.361+15	3.596+12	-31.390	1.935-04	9.283	3.794+12	-31.448	2.041-04	9.225
.1325	7.5472	2.263+15	3.789+12	-31.446	2.219-04	9.135	3.959+12	-31.494	2.318-04	9.087
.1375	7.2727	2.180+15	3.601+12	-31.391	2.271-04	9.109	3.738+12	-31.432	2.357-04	9.069
.1422	7.0323	2.108+15	3.539+12	-31.372	2.387-04	9.055	3.640+12	-31.403	2.455-04	9.025
.1482	6.7476	2.023+15	3.406+12	-31.331	2.495-04	9.007	3.468+12	-31.350	2.541-04	8.988
.1547	6.4641	1.938+15	3.093+12	-31.226	2.469-04	9.019	3.125+12	-31.237	2.495-04	9.007
.1598	6.2578	1.876+15	3.035+12	-31.205	2.585-04	8.969	3.051+12	-31.211	2.599-04	8.963
.1649	6.0643	1.818+15	2.751+12	-31.099	2.495-04	9.007	2.749+12	-31.098	2.493-04	9.008
.1730	5.7803	1.733+15	2.630+12	-31.050	2.626-04	8.952	2.619+12	-31.045	2.615-04	8.956
.1830	5.4645	1.638+15	2.354+12	-30.930	2.630-04	8.950	2.341+12	-30.924	2.615-04	8.956
.1930	5.1813	1.553+15	2.245+12	-30.878	2.789-04	8.886	2.217+12	-30.864	2.755-04	8.900
.2015	4.9628	1.488+15	2.045+12	-30.777	2.770-04	8.894	2.012+12	-30.759	2.725-04	8.912
.2100	4.7619	1.428+15	1.890+12	-30.691	2.780-04	8.890	1.856+12	-30.671	2.730-04	8.910
.2200	4.5455	1.363+15	1.729+12	-30.594	2.791-04	8.885	1.689+12	-30.569	2.727-04	8.911
.2300	4.3478	1.303+15	1.569+12	-30.489	2.769-04	8.894	1.531+12	-30.462	2.702-04	8.921
.2400	4.1667	1.246+15	1.417+12	-30.378	2.723-04	8.913	1.383+12	-30.352	2.657-04	8.939
.2482	4.0290	1.208+15	1.353+12	-30.328	2.786-04	8.890	1.320+12	-30.301	2.712-04	8.917
.2557	3.9108	1.172+15	1.286+12	-30.273	2.805-04	8.880	1.254+12	-30.246	2.735-04	8.908
.2660	3.7594	1.127+15	1.235+12	-30.229	2.915-04	8.838	1.202+12	-30.200	2.837-04	8.868
.2770	3.6101	1.082+15	1.136+12	-30.138	2.907-04	8.841	1.106+12	-30.109	2.831-04	8.870
.2870	3.4843	1.045+15	1.079+12	-30.083	2.965-04	8.820	1.050+12	-30.053	2.885-04	8.850
.2970	3.3670	1.009+15	1.018+12	-30.019	2.995-04	8.809	9.910+11	-29.990	2.916-04	8.838
.3070	3.2573	9.765+14	9.605+11	-29.956	3.020-04	8.800	9.355+11	-29.928	2.941-04	8.829
.3170	3.1546	9.457+14	8.967+11	-29.882	3.006-04	8.805	8.737+11	-29.853	2.929-04	8.833
.3270	3.0581	9.168+14	8.433+11	-29.815	3.008-04	8.804	8.220+11	-29.787	2.932-04	8.832
.3370	2.9674	8.896+14	7.917+11	-29.746	2.999-04	8.808	7.719+11	-29.719	2.924-04	8.835
.3480	2.8736	8.615+14	7.411+11	-29.675	2.994-04	8.809	7.227+11	-29.647	2.919-04	8.837
.3600	2.7778	8.348+14	6.888+11	-29.595	2.978-04	8.815	6.721+11	-29.569	2.905-04	8.842
.3700	2.7027	8.102+14	1.207+12	-30.204	5.512-04	8.147	1.224+12	-30.219	5.589-04	8.132
.3800	2.6316	7.889+14	1.115+12	-30.118	5.371-04	8.175	1.127+12	-30.130	5.428-04	8.163
.3900	2.5641	7.687+14	1.041+12	-30.044	5.282-04	8.193	1.052+12	-30.055	5.337-04	8.182
.4000	2.5000	7.495+14	9.674+11	-29.964	5.163-04	8.218	9.766+11	-29.974	5.212-04	8.207
.4200	2.3810	7.138+14	8.364+11	-29.806	4.921-04	8.270	8.425+11	-29.814	4.957-04	8.262
.4400	2.2727	6.813+14	7.257+11	-29.652	4.686-04	8.323	7.293+11	-29.657	4.710-04	8.318
.4600	2.1739	6.517+14	6.345+11	-29.506	4.478-04	8.372	6.374+11	-29.511	4.499-04	8.367
.4800	2.0833	6.246+14	5.546+11	-29.360	4.262-04	8.426	5.554+11	-29.362	4.268-04	8.424
.5000	2.0000	5.996+14	4.891+11	-29.223	4.079-04	8.474	4.899+11	-29.225	4.085-04	8.472
.5200	1.9231	5.765+14	4.320+11	-29.089	3.896-04	8.523	4.323+11	-29.089	3.899-04	8.523
.5400	1.8519	5.552+14	3.830+11	-28.958	3.725-04	8.572	3.829+11	-28.958	3.724-04	8.572
.5600	1.7857	5.353+14	3.409+11	-28.832	3.566-04	8.620	3.405+11	-28.830	3.562-04	8.621
.5800	1.7241	5.169+14	3.043+11	-28.708	3.415-04	8.667	3.038+11	-28.706	3.409-04	8.668
.6050	1.6529	4.955+14	2.653+11	-28.559	3.239-04	8.724	2.646+11	-28.556	3.231-04	8.727
.6350	1.5748	4.721+14	2.264+11	-28.387	3.045-04	8.791	2.257+11	-28.384	3.036-04	8.794
.6650	1.5038	4.508+14	1.943+11	-28.221	2.866-04	8.857	1.933+11	-28.216	2.851-04	8.862
.6950	1.4388	4.314+14	1.680+11	-28.063	2.707-04	8.919	1.672+11	-28.058	2.694-04	8.924
.7250	1.3793	4.135+14	1.458+11	-27.909	2.556-04	8.981	1.451+11	-27.904	2.544-04	8.986
.7550	1.3245	3.971+14	1.273+11	-27.762	2.420-04	9.040	1.266+11	-27.756	2.407-04	9.046
.7850	1.2739	3.819+14	1.116+11	-27.619	2.294-04	9.099	1.109+11	-27.612	2.280-04	9.105
.8100	1.2346	3.701+14	1.003+11	-27.503	2.195-04	9.146	9.972+10	-27.497	2.182-04	9.153
.8350	1.1976	3.590+14	1.002+11	-27.502	2.330-04	9.081	1.003+11	-27.503	2.333-04	9.080
.9000	1.1111	3.331+14	7.693+10	-27.215	2.079-04	9.206	7.692+10	-27.215	2.078-04	9.206
1.0000	1.0000	2.998+14	5.285+10	-26.808	1.763-04	9.384	5.277+10	-26.806	1.760-04	9.386
1.2000	.8333	2.498+14	2.735+10	-26.092	1.314-04	9.704	2.726+10	-26.089	1.309-04	9.707
1.8000	.5556	1.666+14	6.256+09	-24.491	6.761-05	10.425	6.232+09	-24.487	6.735-05	10.429
2.7000	.3704	1.110+14	1.350+09	-22.826	3.283-05	11.209	1.344+09	-22.821	3.268-05	11.214
4.0000	.2500	7.495+13	2.964+08	-21.180	1.582-05	12.002	2.949+08	-21.174	1.574-05	12.008
5.0000	.2000	5.996+13	1.242+08	-20.235	1.036-05	12.462	1.236+08	-20.230	1.031-05	12.467
6.5000	.1538	4.612+13	4.438+07	-19.118	6.255-06	13.010	4.416+07	-19.113	6.224-06	13.015



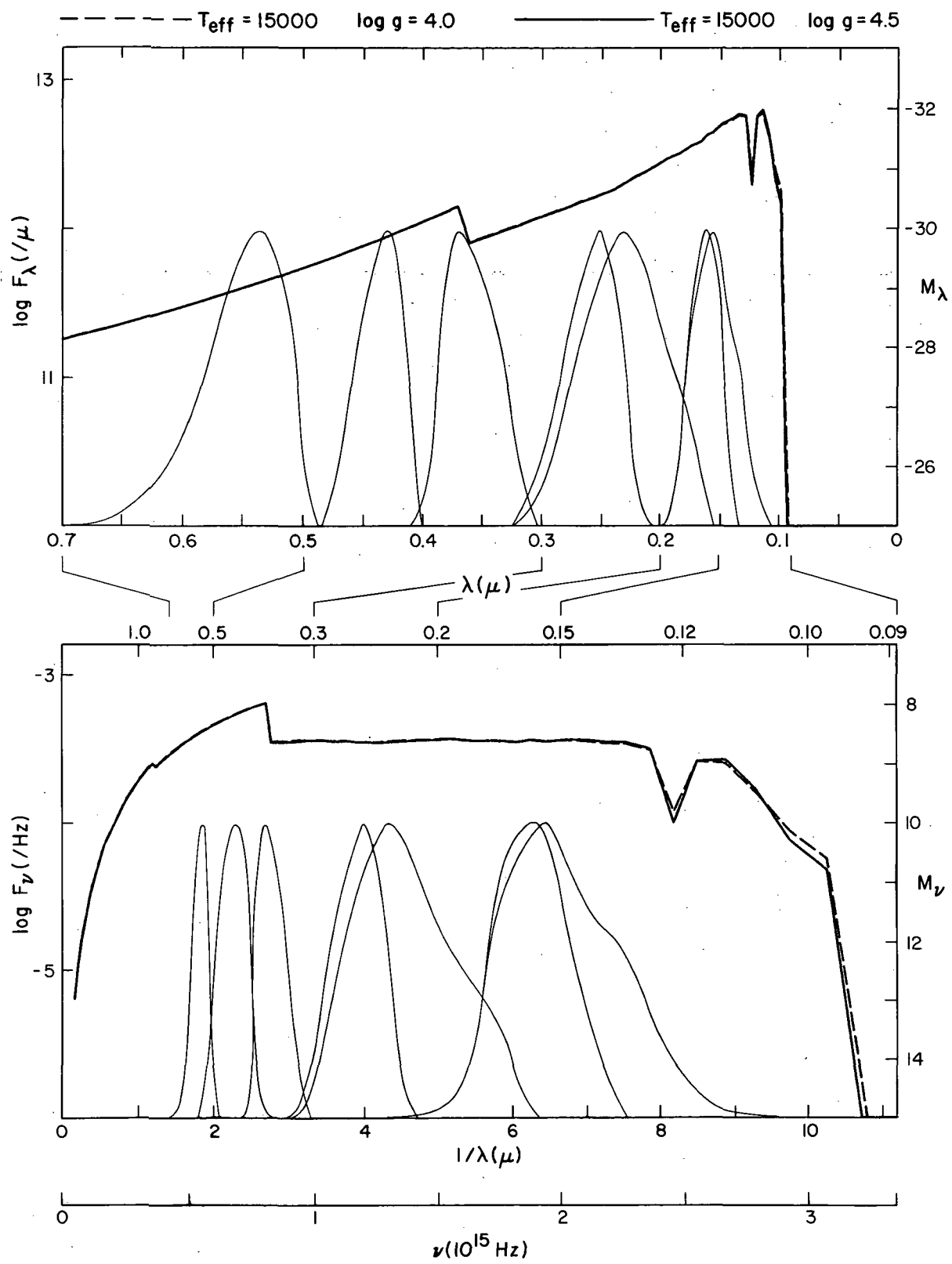
		TEFF = 14000				LOG G = 4.0		TEFF = 14000				LOG G = 4.5		
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	2.577+04	-11.028	2.280-13	31.605	2.466+04	-10.980	2.182-13	31.653	2.466+04	-10.980	2.182-13	31.653
.0540	18.5185	5.552+15	7.622+04	-12.205	7.414-13	30.325	7.227+04	-12.147	7.030-13	30.383	7.227+04	-12.147	7.030-13	30.383
.0565	17.6991	5.306+15	2.031+05	-13.269	2.163-12	49.163	1.914+05	-13.205	2.038-12	29.227	1.914+05	-13.205	2.038-12	29.227
.0587	17.0358	5.107+15	4.338+05	-14.093	4.986-12	48.256	4.103+05	-14.033	4.716-12	28.316	4.103+05	-14.033	4.716-12	28.316
.0612	16.3399	4.899+15	1.005+06	-15.005	1.256-11	47.253	9.414+05	-14.934	1.176-11	27.324	9.414+05	-14.934	1.176-11	27.324
.0634	15.7729	4.726+15	1.933+06	-15.716	2.592-11	46.466	1.815+06	-15.647	2.434-11	26.534	1.815+06	-15.647	2.434-11	26.534
.0671	14.9031	4.468+15	5.276+06	-16.806	7.924-11	45.253	4.964+06	-16.740	7.455-11	25.319	4.964+06	-16.740	7.455-11	25.319
.0705	14.1844	4.252+15	1.211+07	-17.708	2.008-10	44.243	1.139+07	-17.641	1.888-10	24.310	1.139+07	-17.641	1.888-10	24.310
.0736	13.5870	4.073+15	2.395+07	-18.448	4.328-10	43.409	2.260+07	-18.385	4.084-10	23.472	2.260+07	-18.385	4.084-10	23.472
.0770	12.9870	3.893+15	4.744+07	-19.190	9.382-10	42.569	4.483+07	-19.129	8.866-10	22.633	4.483+07	-19.129	8.866-10	22.633
.0810	12.3457	3.701+15	9.740+07	-19.971	2.132-09	41.678	9.247+07	-19.915	2.024-09	21.735	9.247+07	-19.915	2.024-09	21.735
.0850	11.7647	3.527+15	1.857+08	-20.672	4.475-09	40.873	1.772+08	-20.621	4.271-09	20.924	1.772+08	-20.621	4.271-09	20.924
.0890	11.2360	3.368+15	3.341+08	-21.310	8.827-09	40.135	3.197+08	-21.262	8.447-09	20.183	3.197+08	-21.262	8.447-09	20.183
.0930	10.7527	3.224+15	1.352+10	-25.327	3.901-07	39.022	8.596+09	-24.836	2.468-07	16.514	8.596+09	-24.836	2.468-07	16.514
.0975	10.2564	3.075+15	7.614+11	-29.704	2.414-05	38.153	5.955+11	-29.437	1.888-05	11.810	5.955+11	-29.437	1.888-05	11.810
.1025	9.7561	2.925+15	1.120+12	-30.123	3.925-05	37.015	9.040+11	-29.890	3.168-05	11.248	9.040+11	-29.890	3.168-05	11.248
.1075	9.3023	2.789+15	2.114+12	-30.813	8.149-05	36.222	2.144+12	-30.828	8.265-05	10.207	2.144+12	-30.828	8.265-05	10.207
.1125	8.8889	2.665+15	3.847+12	-31.463	1.624-04	35.473	4.042+12	-31.516	1.706-04	9.420	4.042+12	-31.516	1.706-04	9.420
.1175	8.5106	2.551+15	3.575+12	-31.383	1.646-04	34.959	3.573+12	-31.383	1.645-04	9.459	3.573+12	-31.383	1.645-04	9.459
.1220	8.1967	2.457+15	1.339+12	-30.317	6.648-05	34.443	1.070+12	-30.073	5.312-05	10.687	1.070+12	-30.073	5.312-05	10.687
.1270	7.8740	2.361+15	3.904+12	-31.479	2.100-04	33.194	3.949+12	-31.491	2.125-04	9.182	3.949+12	-31.491	2.125-04	9.182
.1325	7.5472	2.263+15	4.070+12	-31.524	2.383-04	32.057	4.163+12	-31.549	2.438-04	9.032	4.163+12	-31.549	2.438-04	9.032
.1375	7.2727	2.180+15	3.830+12	-31.458	2.415-04	30.943	3.914+12	-31.482	2.468-04	9.019	3.914+12	-31.482	2.468-04	9.019
.1422	7.0323	2.108+15	3.710+12	-31.423	2.502-04	29.904	3.779+12	-31.443	2.549-04	8.984	3.779+12	-31.443	2.549-04	8.984
.1482	6.7476	2.023+15	3.512+12	-31.364	2.573-04	28.974	3.561+12	-31.379	2.609-04	8.959	3.561+12	-31.379	2.609-04	8.959
.1547	6.4641	1.938+15	3.150+12	-31.246	2.515-04	28.999	3.186+12	-31.258	2.543-04	8.986	3.186+12	-31.258	2.543-04	8.986
.1598	6.2578	1.876+15	3.064+12	-31.216	2.610-04	28.958	3.088+12	-31.224	2.630-04	8.950	3.088+12	-31.224	2.630-04	8.950
.1643	6.0643	1.818+15	2.751+12	-31.099	2.495-04	28.907	2.766+12	-31.105	2.509-04	9.001	2.766+12	-31.105	2.509-04	9.001
.1730	5.7803	1.733+15	2.617+12	-31.045	2.613-04	28.957	2.630+12	-31.050	2.626-04	8.952	2.630+12	-31.050	2.626-04	8.952
.1830	5.4645	1.638+15	2.340+12	-30.923	2.614-04	28.957	2.351+12	-30.928	2.626-04	8.952	2.351+12	-30.928	2.626-04	8.952
.1930	5.1813	1.553+15	2.203+12	-30.858	2.737-04	28.907	2.204+12	-30.858	2.738-04	8.906	2.204+12	-30.858	2.738-04	8.906
.2015	4.9628	1.488+15	1.996+12	-30.750	2.703-04	28.920	1.995+12	-30.750	2.702-04	8.921	1.995+12	-30.750	2.702-04	8.921
.2100	4.7619	1.428+15	1.840+12	-30.662	2.707-04	28.919	1.838+12	-30.661	2.704-04	8.920	1.838+12	-30.661	2.704-04	8.920
.2200	4.5455	1.363+15	1.668+12	-30.555	2.693-04	28.924	1.661+12	-30.551	2.682-04	8.929	1.661+12	-30.551	2.682-04	8.929
.2300	4.3478	1.303+15	1.511+12	-30.448	2.666-04	28.935	1.504+12	-30.443	2.654-04	8.940	1.504+12	-30.443	2.654-04	8.940
.2400	4.1667	1.245+15	1.368+12	-30.340	2.628-04	28.951	1.364+12	-30.337	2.621-04	8.954	1.364+12	-30.337	2.621-04	8.954
.2482	4.0290	1.208+15	1.304+12	-30.288	2.680-04	28.930	1.300+12	-30.285	2.671-04	8.933	1.300+12	-30.285	2.671-04	8.933
.2557	3.9108	1.172+15	1.238+12	-30.232	2.700-04	28.922	1.232+12	-30.227	2.687-04	8.927	1.232+12	-30.227	2.687-04	8.927
.2660	3.7594	1.127+15	1.186+12	-30.185	2.799-04	28.882	1.178+12	-30.178	2.780-04	8.890	1.178+12	-30.178	2.780-04	8.890
.2770	3.6101	1.082+15	1.090+12	-30.094	2.790-04	28.886	1.082+12	-30.086	2.769-04	8.894	1.082+12	-30.086	2.769-04	8.894
.2870	3.4843	1.045+15	1.036+12	-30.038	2.846-04	28.864	1.028+12	-30.030	2.824-04	8.873	1.028+12	-30.030	2.824-04	8.873
.2970	3.3670	1.005+15	9.765+11	-29.974	2.873-04	28.854	9.680+11	-29.965	2.848-04	8.864	9.680+11	-29.965	2.848-04	8.864
.3070	3.2573	9.765+14	9.216+11	-29.911	2.897-04	28.845	9.130+11	-29.901	2.870-04	8.855	9.130+11	-29.901	2.870-04	8.855
.3170	3.1546	9.457+14	8.611+11	-29.838	2.886-04	28.849	8.532+11	-29.828	2.860-04	8.859	8.532+11	-29.828	2.860-04	8.859
.3270	3.0581	9.168+14	8.102+11	-29.771	2.890-04	28.848	8.026+11	-29.761	2.863-04	8.858	8.026+11	-29.761	2.863-04	8.858
.3370	2.9674	8.896+14	7.610+11	-29.703	2.883-04	28.850	7.538+11	-29.693	2.856-04	8.861	7.538+11	-29.693	2.856-04	8.861
.3480	2.8736	8.615+14	7.125+11	-29.632	2.878-04	28.852	7.056+11	-29.621	2.850-04	8.863	7.056+11	-29.621	2.850-04	8.863
.3600	2.7778	8.328+14	6.628+11	-29.553	2.865-04	28.857	6.565+11	-29.543	2.838-04	8.867	6.565+11	-29.543	2.838-04	8.867
.3700	2.7027	8.102+14	1.233+12	-30.227	5.630-04	28.124	1.241+12	-30.234	5.667-04	8.117	1.241+12	-30.234	5.667-04	8.117
.3800	2.6316	7.889+14	1.133+12	-30.136	5.457-04	28.158	1.137+12	-30.139	5.477-04	8.154	1.137+12	-30.139	5.477-04	8.154
.3900	2.5641	7.687+14	1.057+12	-30.060	5.363-04	28.177	1.061+12	-30.064	5.383-04	8.172	1.061+12	-30.064	5.383-04	8.172
.4000	2.5000	7.495+14	9.810+11	-29.979	5.236-04	28.203	9.839+11	-29.982	5.251-04	8.199	9.839+11	-29.982	5.251-04	8.199
.4200	2.3810	7.138+14	8.452+11	-29.817	4.973-04	28.258	8.470+11	-29.820	4.984-04	8.256	8.470+11	-29.820	4.984-04	8.256
.4400	2.2727	6.813+14	7.303+11	-29.659	4.716-04	28.316	7.311+11	-29.660	4.721-04	8.315	7.311+11	-29.660	4.721-04	8.315
.4600	2.1739	6.517+14	6.387+11	-29.513	4.508-04	28.365	6.399+11	-29.515	4.517-04	8.363	6.399+11	-29.515	4.517-04	8.363
.4800	2.0833	6.246+14	5.551+11	-29.361	4.266-04	28.425	5.548+11	-29.360	4.264-04	8.426	5.548+11	-29.360	4.264-04	8.426
.5000	2.0000	5.996+14	4.902+11	-29.226	4.088-04	28.471	4.906+11	-29.227	4.091-04	8.470	4.906+11	-29.227	4.091-04	8.470
.5200	1.9231	5.765+14	4.322+11	-29.089	3.898-04	28.523	4.323+11	-29.089	3.899-04	8.523	4.323+11	-29.089	3.899-04	8.523
.5400	1.8519	5.552+14	3.827+11	-28.957	3.722-04	28.573	3.826+11	-28.957	3.721-04	8.573	3.826+11	-28.957	3.721-04	8.573
.5600	1.7857	5.353+14	3.401+11	-28.829	3.558-04	28.622	3.399+11	-28.828	3.556-04	8.623	3.399+11	-28.828	3.556-04	8.623
.5800	1.7241	5.169+14	3.033+11	-28.705	3.403-04	28.670	3.031+11	-28.704	3.401-04	8.671	3.031+11	-28.704	3.401-04	8.671
.6050	1.6529	4.955+14	2.641+11	-28.554	3.224-04	28.729	2.638+11	-28.553	3.221-04	8.730	2.638+11	-28.553	3.221-04	8.730
.6350	1.5748	4.721+14	2.252+11	-28.381	3.029-04	28.797	2.248+11	-28.379	3.024-04	8.799	2.248+11	-28.379	3.024-04	8.799
.6508	1.5038	4.508+14	1.927+11	-28.212	2.843-04	28.866	1.921+11	-28.209	2.834-04	8.869	1.921+11	-28.209	2.834-04	8.869
.6950	1.4388	4.314+14	1.667+11	-28.055	2.686-04	28.927	1.664+11	-28.053	2.681-04	8.929	1.664+11	-28.053	2.681-04	8.929
.7250	1.3793	4.135+14	1.447+11	-27.901	2.537-04	28.989	1.443+11	-27.898	2.530-04	8.992	1.443+11	-27.898	2.530-04	8.992
.7550	1.3245	3.971+14	1.262+11	-27.753	2.400-04	29.050	1.259+11	-27.750	2.394-04	9.052	1.259+11	-27.750	2.394-04	9.052
.7850	1.2739	3.819+14	1.106+11	-27.609	2.273-04	29.108	1.103+11	-27.606	2.267-04	9.111	1.103+11			



TEFF = 15000						LOG G = 4.0		TEFF = 15000				LOG G = 2.5				
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.6515	15.4175	5.821+15	1.240+06	-15.234	1.097-11	27.399		5.882+05	-14.424	5.204-12	28.209					
.6540	15.5185	5.552+15	3.521+06	-16.367	3.425+11	46.163		1.673+06	-15.559	1.627-11	26.971					
.6565	17.6991	5.306+15	8.680+06	-17.346	9.243+11	45.086		4.145+06	-16.544	4.414-11	25.888					
.6587	17.0358	5.107+15	1.512+07	-17.949	1.738-10	24.400		7.562+06	-17.197	8.691-11	25.152					
.6612	16.3399	4.899+15	3.442+07	-18.842	4.300-10	23.416		1.708+07	-18.081	2.134-10	24.177					
.6634	15.7729	4.729+15	5.892+07	-19.426	7.900-10	22.756		2.995+07	-18.691	4.016-10	23.491					
.6671	14.9031	4.468+15	1.341+08	-20.319	2.014-09	21.740		7.056+07	-19.621	1.060-09	22.437					
.6705	14.1844	4.252+15	2.721+08	-21.087	4.511-09	20.864		1.462+08	-20.412	2.424-09	21.539					
.6736	13.5870	4.073+15	4.703+08	-21.681	8.498-09	20.177		2.600+08	-21.037	4.698-09	20.820					
.6770	12.9870	3.893+15	8.542+08	-22.329	1.689-08	19.431		4.774+08	-21.697	9.442-09	20.062					
.6810	12.3457	3.701+15	1.513+09	-22.950	3.311-08	18.700		8.741+08	-22.354	1.913-08	19.296					
.6850	11.7647	3.527+15	2.489+09	-23.490	5.998-08	18.055		1.491+09	-22.934	3.593-08	18.611					
.6890	11.2360	3.368+15	4.132+09	-24.040	1.092-07	17.405		2.499+09	-23.494	6.603-08	17.951					
.6930	10.7527	3.224+15	1.022+12	-30.024	2.948+05	11.326		5.925+11	-29.432	1.709-05	11.918					
.6975	10.2564	3.075+15	1.596+12	-30.508	5.061+05	10.739		1.866+12	-30.677	5.917-05	10.570					
.7025	9.7561	2.925+15	2.652+12	-31.059	9.294+05	10.079		2.757+12	-31.101	9.662-05	10.037					
.7075	9.3023	2.789+15	2.879+12	-31.148	1.110-04	9.887		3.260+12	-31.283	1.257-04	9.752					
.7125	8.8889	2.665+15	3.948+12	-31.491	1.667+04	9.445		4.516+12	-31.637	1.907-04	9.299					
.7175	8.5106	2.551+15	4.137+12	-31.542	1.905+04	9.300		4.646+12	-31.668	2.140-04	9.174					
.7220	8.1967	2.457+15	2.784+12	-31.112	1.382-04	9.649		2.874+12	-31.146	1.427-04	9.614					
.7270	7.8740	2.361+15	4.500+12	-31.633	2.421-04	9.040		4.921+12	-31.730	2.648-04	8.943					
.7325	7.5472	2.263+15	4.731+12	-31.687	2.771-04	8.894		5.133+12	-31.776	3.006-04	8.805					
.7375	7.2727	2.180+15	4.486+12	-31.630	2.829-04	8.871		4.870+12	-31.719	3.071-04	8.782					
.7422	7.0323	2.108+15	4.528+12	-31.640	3.054+04	8.788		4.826+12	-31.709	3.255-04	8.719					
.7482	6.7476	2.023+15	4.522+12	-31.638	3.313+04	8.699		4.702+12	-31.681	3.445+04	8.657					
.7547	6.4641	1.938+15	4.225+12	-31.565	3.373+04	8.680		4.319+12	-31.588	3.448+04	8.656					
.7598	6.2578	1.876+15	4.173+12	-31.551	3.555+04	8.623		4.227+12	-31.565	3.601+04	8.609					
.7649	6.0643	1.818+15	3.904+12	-31.479	3.541+04	8.627		3.895+12	-31.476	3.533+04	8.630					
.7730	5.7803	1.733+15	3.733+12	-31.430	3.727+04	8.572		3.691+12	-31.418	3.685+04	8.584					
.7830	5.4645	1.638+15	3.379+12	-31.322	3.775+04	8.558		3.305+12	-31.298	3.692+04	8.582					
.7930	5.1813	1.553+15	3.243+12	-31.277	4.029+04	8.487		3.135+12	-31.241	3.895+04	8.524					
.8015	4.9628	1.488+15	3.023+12	-31.201	4.094+04	8.470		2.879+12	-31.148	3.899+04	8.523					
.8100	4.7619	1.428+15	2.814+12	-31.123	4.139+04	8.458		2.657+12	-31.061	3.908+04	8.520					
.8200	4.5455	1.363+15	2.612+12	-31.042	4.217+04	8.438		2.438+12	-30.968	3.936+04	8.512					
.8300	4.3478	1.303+15	2.383+12	-30.943	4.205+04	8.441		2.209+12	-30.860	3.898+04	8.523					
.8400	4.1667	1.245+15	2.176+12	-30.844	4.181+04	8.447		2.002+12	-30.754	3.847+04	8.537					
.8482	4.0290	1.206+15	2.057+12	-30.783	4.227+04	8.435		1.892+12	-30.692	3.888+04	8.526					
.8557	3.9108	1.172+15	1.943+12	-30.721	4.238+04	8.432		1.786+12	-30.630	3.895+04	8.524					
.8660	3.7594	1.127+15	1.840+12	-30.662	4.343+04	8.406		1.692+12	-30.571	3.993+04	8.497					
.8770	3.6101	1.082+15	1.686+12	-30.567	4.315+04	8.413		1.548+12	-30.474	3.962+04	8.505					
.8870	3.4843	1.045+15	1.583+12	-30.499	4.349+04	8.404		1.455+12	-30.407	3.998+04	8.495					
.8970	3.3670	1.009+15	1.474+12	-30.421	4.337+04	8.407		1.357+12	-30.331	3.993+04	8.497					
.9070	3.2573	9.765+14	1.378+12	-30.348	4.332+04	8.408		1.270+12	-30.260	3.993+04	8.497					
.9170	3.1546	9.457+14	1.282+12	-30.270	4.297+04	8.417		1.181+12	-30.181	3.959+04	8.506					
.9270	3.0581	9.168+14	1.195+12	-30.193	4.262+04	8.426		1.103+12	-30.106	3.934+04	8.513					
.9370	2.9674	8.896+14	1.114+12	-30.117	4.220+04	8.437		1.030+12	-30.032	3.902+04	8.522					
.9480	2.8736	8.615+14	1.043+12	-30.046	4.213+04	8.438		9.609+11	-29.957	3.882+04	8.527					
.9600	2.7778	8.328+14	9.610+11	-29.957	4.154+04	8.454		8.870+11	-29.870	3.834+04	8.541					
.9700	2.7027	8.102+14	1.264+12	-30.254	5.772+04	8.097		1.353+12	-30.328	6.178+04	8.023					
.9800	2.6316	7.889+14	1.177+12	-30.177	5.669+04	8.116		1.253+12	-30.245	6.035+04	8.048					
.9900	2.5641	7.687+14	1.098+12	-30.102	5.571+04	8.135		1.165+12	-30.166	5.911+04	8.071					
1.0000	2.5000	7.495+14	1.025+12	-30.027	5.470+04	8.155		1.083+12	-30.087	5.780+04	8.095					
1.2000	2.3810	7.138+14	8.942+11	-29.879	5.262+04	8.197		9.373+11	-29.930	5.515+04	8.146					
1.4000	2.2727	6.813+14	7.829+11	-29.734	5.056+04	8.241		8.146+11	-29.777	5.261+04	8.197					
1.6000	2.1739	6.517+14	6.882+11	-29.594	4.857+04	8.284		7.116+11	-29.631	5.023+04	8.248					
1.8000	2.0833	6.246+14	6.068+11	-29.458	4.663+04	8.328		6.235+11	-29.487	4.792+04	8.299					
2.0000	2.0000	5.996+14	5.368+11	-29.325	4.476+04	8.373		5.491+11	-29.349	4.579+04	8.348					
2.2000	1.9231	5.765+14	4.765+11	-29.195	4.298+04	8.417		4.851+11	-29.215	4.375+04	8.397					
2.4000	1.8519	5.552+14	4.242+11	-29.069	4.126+04	8.461		4.301+11	-29.084	4.183+04	8.446					
2.6000	1.7857	5.353+14	3.788+11	-28.946	3.962+04	8.505		3.827+11	-28.957	4.003+04	8.494					
2.8000	1.7241	5.169+14	3.392+11	-28.826	3.806+04	8.549		3.416+11	-28.834	3.833+04	8.541					
3.0000	1.6529	4.955+14	2.966+11	-28.680	3.621+04	8.603		2.977+11	-28.684	3.635+04	8.599					
3.2000	1.5748	4.721+14	2.539+11	-28.512	3.415+04	8.667		2.539+11	-28.512	3.415+04	8.667					
3.4000	1.5038	4.508+14	2.186+11	-28.349	3.225+04	8.729		2.179+11	-28.346	3.214+04	8.732					
3.6000	1.4388	4.314+14	1.891+11	-28.192	3.047+04	8.790		1.881+11	-28.186	3.031+04	8.796					
3.8000	1.3793	4.135+14	1.644+11	-28.040	2.882+04	8.851		1.631+11	-28.031	2.860+04	8.859					
4.0000	1.3245	3.971+14	1.435+11	-27.892	2.729+04	8.910		1.422+11	-27.882	2.704+04	8.920					
4.2000	1.2739	3.8.														



TEFF = 15000						LOG G = 3.0		TEFF = 15000						LOG G = 3.5		
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)		F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	3.985+05	-14.001	3.526-12	28.632		3.263+05	-13.784	2.887-12	28.849					
.0540	18.5185	5.552+15	1.114+06	-15.117	1.084+11	47.413		8.941+05	-14.878	8.697-12	27.652					
.0565	17.6991	5.306+15	2.750+06	-16.098	2.928+11	46.333		2.193+06	-15.853	2.335+11	26.579					
.0587	17.0358	5.107+15	5.180+06	-16.786	5.954+11	45.563		4.215+06	-16.562	4.845+11	25.787					
.0612	16.3399	4.899+15	1.151+07	-17.653	1.438+10	44.606		9.228+06	-17.413	1.153+10	24.846					
.0634	15.7729	4.729+15	2.042+07	-18.275	2.738+10	43.906		1.646+07	-18.041	2.207+10	24.141					
.0671	14.9031	4.468+15	4.902+07	-19.226	7.362+10	42.833		3.993+07	-19.003	5.997+10	23.055					
.0705	14.1844	4.252+15	1.025+08	-20.027	1.699+09	41.924		8.385+07	-19.809	1.390+09	22.142					
.0736	13.5870	4.073+15	1.852+08	-20.669	3.346+09	41.189		1.527+08	-20.460	2.759+09	21.398					
.0770	12.9870	3.893+15	3.415+08	-21.333	6.754+09	40.426		2.817+08	-21.124	5.571+09	20.635					
.0810	12.3457	3.701+15	6.365+08	-22.009	1.393+08	19.640		5.298+08	-21.810	1.159+08	19.839					
.0850	11.7647	3.527+15	1.107+09	-22.610	2.668+08	18.935		9.298+08	-22.421	2.241+08	19.124					
.0890	11.2360	3.368+15	1.864+09	-23.176	4.925+08	18.269		1.569+09	-22.989	4.146+08	18.456					
.0930	10.7527	3.224+15	2.908+11	-28.659	8.390+06	12.691		1.172+11	-27.672	3.381+06	13.677					
.0975	10.2564	3.075+15	2.000+12	-30.753	6.342+05	10.494		1.976+12	-30.739	6.266+05	10.508					
.1025	9.7561	2.925+15	2.820+12	-31.126	9.883+05	10.013		2.750+12	-31.098	9.637+05	10.040					
.1075	9.3023	2.789+15	3.637+12	-31.402	1.402+04	9.633		3.952+12	-31.492	1.523+04	9.543					
.1125	8.8889	2.665+15	5.100+12	-31.769	2.153+04	9.167		5.617+12	-31.874	2.371+04	9.063					
.1175	8.5106	2.551+15	5.099+12	-31.769	2.348+04	9.073		5.439+12	-31.839	2.505+04	9.003					
.1220	8.1967	2.457+15	2.826+12	-31.128	1.403+04	9.632		2.659+12	-31.062	1.320+04	9.698					
.1270	7.8740	2.361+15	5.282+12	-31.807	2.842+04	8.866		5.561+12	-31.863	2.992+04	8.810					
.1325	7.5472	2.263+15	5.436+12	-31.838	3.183+04	8.743		5.667+12	-31.883	3.319+04	8.698					
.1375	7.2727	2.180+15	5.126+12	-31.774	3.233+04	8.726		5.313+12	-31.813	3.351+04	8.687					
.1422	7.0323	2.108+15	5.007+12	-31.749	3.377+04	8.679		5.140+12	-31.777	3.467+04	8.650					
.1482	6.7476	2.023+15	4.799+12	-31.703	3.516+04	8.635		4.871+12	-31.719	3.569+04	8.619					
.1547	6.4641	1.938+15	4.352+12	-31.597	3.474+04	8.648		4.380+12	-31.604	3.497+04	8.641					
.1598	6.2578	1.876+15	4.231+12	-31.566	3.604+04	8.608		4.238+12	-31.568	3.610+04	8.606					
.1649	6.0643	1.818+15	3.858+12	-31.466	3.499+04	8.640		3.839+12	-31.461	3.482+04	8.645					
.1730	5.7803	1.733+15	3.637+12	-31.402	3.631+04	8.600		3.609+12	-31.393	3.603+04	8.608					
.1830	5.4645	1.638+15	3.242+12	-31.277	3.622+04	8.603		3.210+12	-31.266	3.586+04	8.614					
.1930	5.1813	1.553+15	3.049+12	-31.210	3.788+04	8.554		3.001+12	-31.193	3.729+04	8.571					
.2015	4.9628	1.488+15	2.778+12	-31.109	3.762+04	8.561		2.722+12	-31.087	3.687+04	8.583					
.2100	4.7619	1.428+15	2.555+12	-31.018	3.758+04	8.562		2.499+12	-30.994	3.676+04	8.587					
.2200	4.5455	1.363+15	2.330+12	-30.918	3.762+04	8.562		2.267+12	-30.889	3.660+04	8.591					
.2300	4.3478	1.303+15	2.105+12	-30.808	3.714+04	8.575		2.046+12	-30.777	3.610+04	8.606					
.2400	4.1667	1.244+15	1.903+12	-30.699	3.656+04	8.592		1.847+12	-30.666	3.549+04	8.625					
.2482	4.0290	1.208+15	1.799+12	-30.638	3.697+04	8.580		1.746+12	-30.605	3.588+04	8.613					
.2557	3.9108	1.172+15	1.698+12	-30.575	3.703+04	8.579		1.649+12	-30.543	3.596+04	8.610					
.2660	3.7594	1.127+15	1.610+12	-30.517	3.800+04	8.551		1.562+12	-30.484	3.687+04	8.583					
.2770	3.6101	1.082+15	1.472+12	-30.420	3.767+04	8.560		1.428+12	-30.387	3.655+04	8.593					
.2870	3.4843	1.045+15	1.385+12	-30.354	3.805+04	8.549		1.345+12	-30.322	3.695+04	8.581					
.2970	3.3670	1.009+15	1.294+12	-30.280	3.807+04	8.548		1.257+12	-30.248	3.699+04	8.580					
.3070	3.2573	9.765+14	1.212+12	-30.209	3.810+04	8.548		1.178+12	-30.178	3.703+04	8.578					
.3170	3.1546	9.457+14	1.128+12	-30.131	3.781+04	8.556		1.096+12	-30.100	3.674+04	8.587					
.3270	3.0581	9.168+14	1.054+12	-30.057	3.759+04	8.562		1.025+12	-30.027	3.656+04	8.593					
.3370	2.9674	8.896+14	9.847+11	-29.983	3.730+04	8.571		9.584+11	-29.954	3.631+04	8.600					
.3480	2.8736	8.615+14	9.178+11	-29.907	3.708+04	8.577		8.928+11	-29.877	3.607+04	8.607					
.3600	2.7778	8.328+14	8.483+11	-29.821	3.667+04	8.589		8.258+11	-29.792	3.570+04	8.618					
.3700	2.7027	8.102+14	1.390+12	-30.358	6.347+04	7.994		1.408+12	-30.372	6.430+04	7.980					
.3800	2.6316	7.889+14	1.282+12	-30.270	6.175+04	8.023		1.295+12	-30.281	6.238+04	8.012					
.3900	2.5641	7.687+14	1.190+12	-30.189	6.037+04	8.048		1.202+12	-30.200	6.098+04	8.037					
.4000	2.5000	7.495+14	1.104+12	-30.107	5.892+04	8.074		1.113+12	-30.116	5.940+04	8.066					
.4200	2.3810	7.138+14	9.515+11	-29.946	5.599+04	8.130		9.573+11	-29.953	5.633+04	8.123					
.4400	2.2727	6.813+14	8.239+11	-29.790	5.321+04	8.185		8.269+11	-29.794	5.340+04	8.181					
.4600	2.1739	6.517+14	7.180+11	-29.640	5.068+04	8.238		7.202+11	-29.644	5.083+04	8.235					
.4800	2.0833	6.246+14	6.269+11	-29.493	4.818+04	8.293		6.270+11	-29.493	4.819+04	8.293					
.5000	2.0000	5.996+14	5.512+11	-29.353	4.597+04	8.344		5.514+11	-29.354	4.598+04	8.344					
.5200	1.9231	5.765+14	4.861+11	-29.217	4.384+04	8.395		4.856+11	-29.216	4.380+04	8.396					
.5400	1.8519	5.552+14	4.302+11	-29.084	4.184+04	8.446		4.295+11	-29.082	4.178+04	8.448					
.5600	1.7857	5.353+14	3.822+11	-28.956	3.998+04	8.495		3.812+11	-28.953	3.988+04	8.498					
.5800	1.7241	5.169+14	3.408+11	-28.831	3.824+04	8.544		3.396+11	-28.827	3.811+04	8.547					
.6050	1.6529	4.955+14	2.965+11	-28.680	3.620+04	8.603		2.954+11	-28.676	3.607+04	8.607					
.6350	1.5748	4.721+14	2.526+11	-28.506	3.398+04	8.672		2.514+11	-28.501	3.381+04	8.677					
.6650	1.5038	4.508+14	2.164+11	-28.338	3.192+04	8.740		2.151+11	-28.332	3.173+04	8.746					
.6950	1.4388	4.314+14	1.867+11	-28.178	3.008+04	8.804		1.856+11	-28.171	2.990+04	8.811					
.7250	1.3793	4.135+14	1.618+11	-28.022	2.837+04	8.868		1.608+11	-28.016	2.819+04	8.875					
.7550	1.3245	3.971+14	1.410+11	-27.873	2.681+04	8.929		1.400+11	-27.865	2.662+04	8.937					
.7850	1.2739	3.819+14	1.234+11	-27.728												





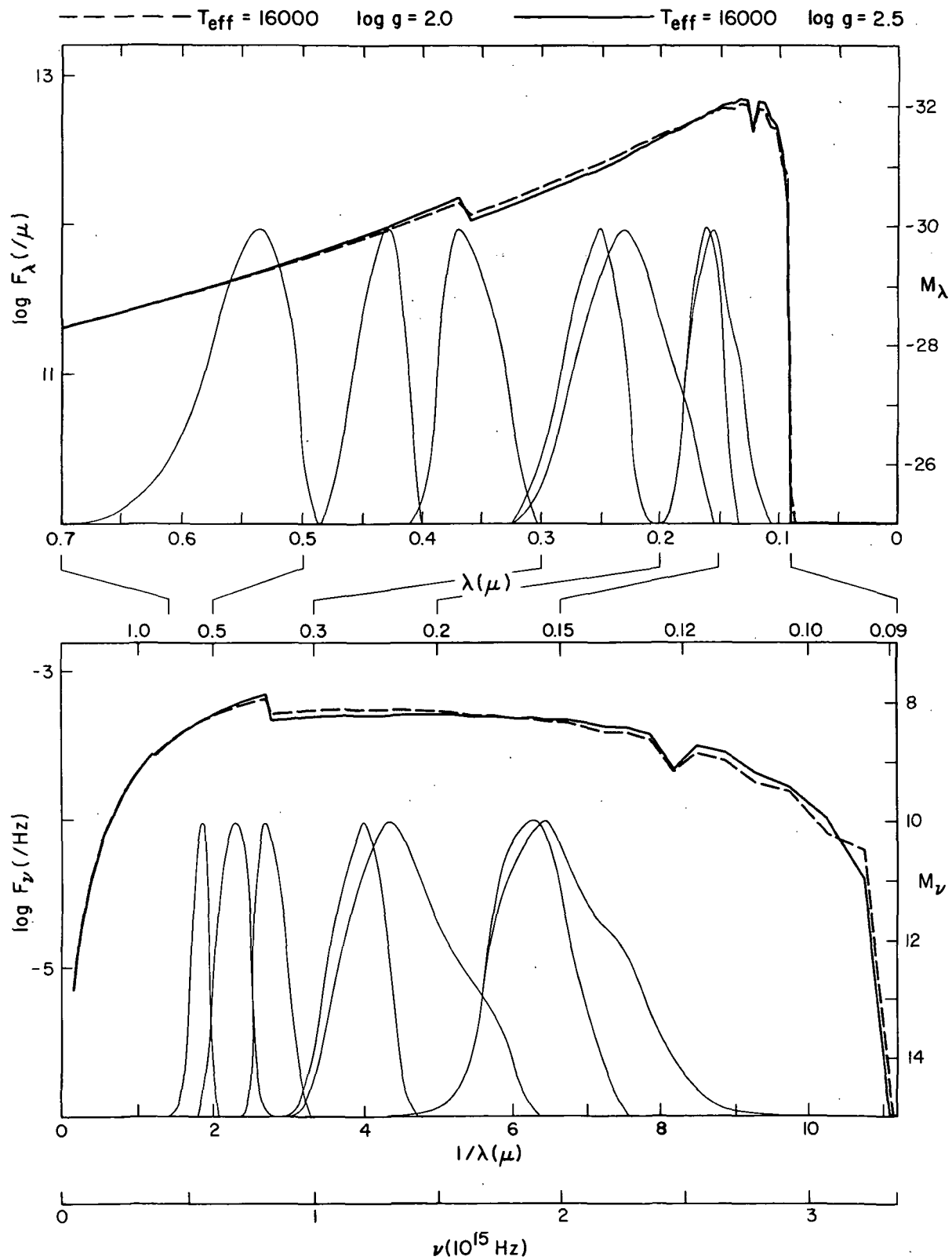
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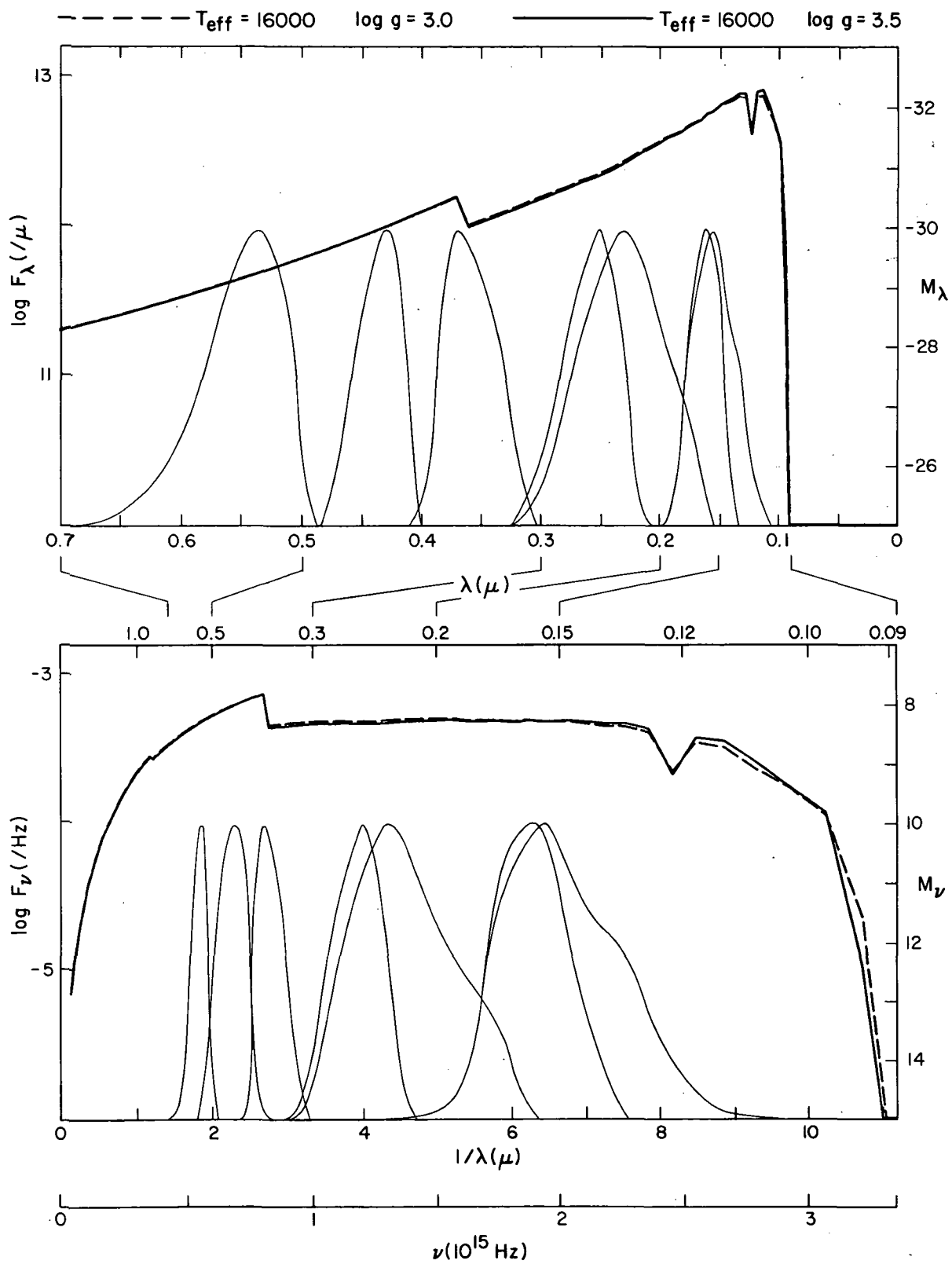
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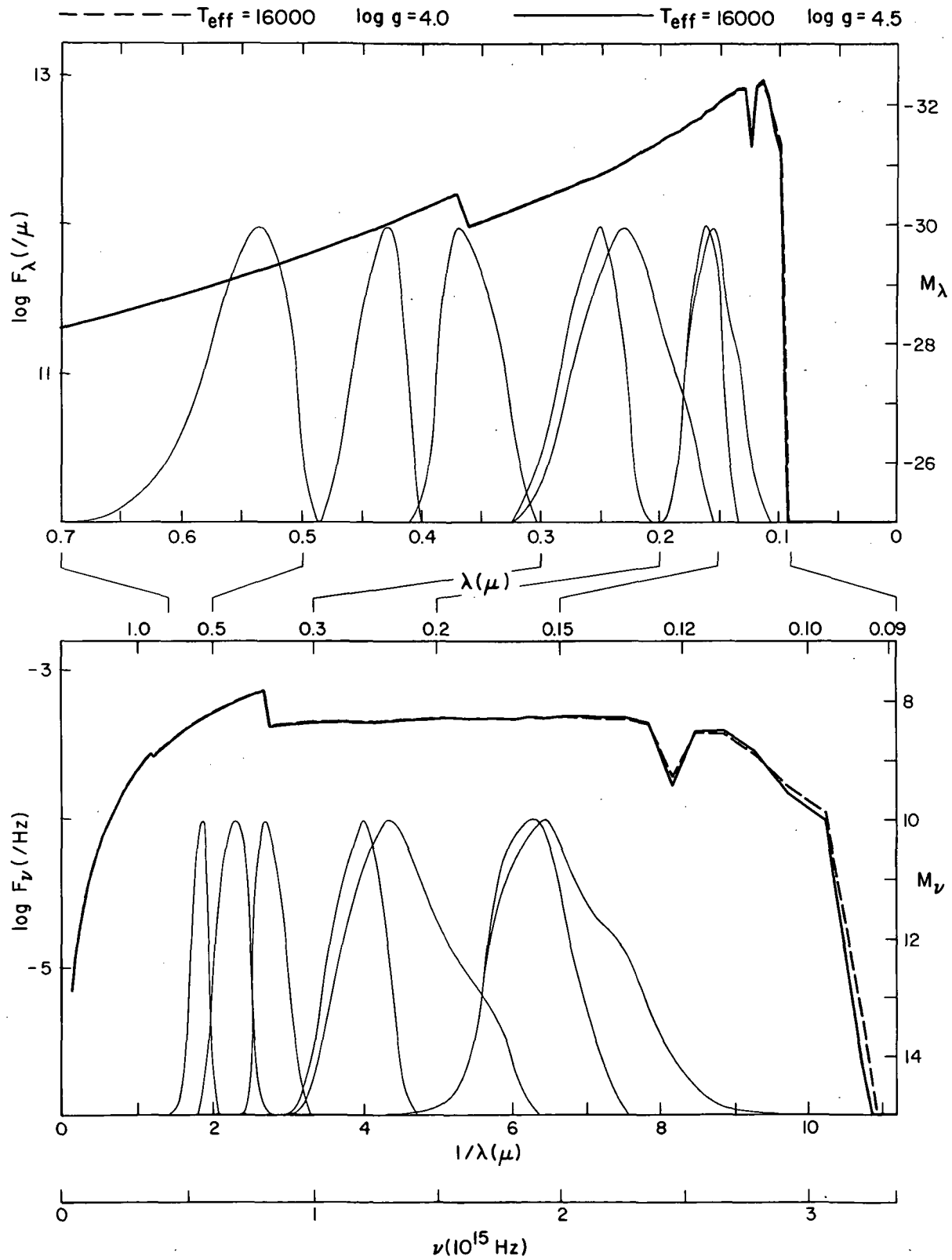
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	3.018+05	-13.699	2.670-12	48.934	2.841+05	-13.634	2.513-12	28.999
.0540	18.5185	5.552+15	8.137+05	-14.776	7.915-12	47.754	7.537+05	-14.693	7.331-12	27.837
.0565	17.6991	5.306+15	1.980+06	-15.742	2.108-11	46.690	1.814+06	-15.647	1.932-11	26.785
.0587	17.0358	5.107+15	3.849+06	-16.463	4.424-11	45.885	3.539+06	-16.372	4.068-11	25.977
.0612	16.3399	4.899+15	8.311+06	-17.299	1.038-10	44.959	7.535+06	-17.193	9.414-11	25.066
.0634	15.7729	4.729+15	1.486+07	-17.930	1.992-10	44.252	1.346+07	-17.823	1.805-10	24.359
.0671	14.9031	4.468+15	3.622+07	-18.897	5.440-10	43.161	3.278+07	-18.789	4.923-10	23.269
.0705	14.1844	4.252+15	7.599+07	-19.702	1.260-09	42.249	6.853+07	-19.590	1.136-09	22.361
.0736	13.5870	4.073+15	1.389+08	-20.357	2.510-09	41.501	1.254+08	-20.246	2.266-09	21.612
.0770	12.9870	3.893+15	2.556+08	-21.019	5.055-09	40.741	2.299+08	-20.904	4.547-09	20.856
.0810	12.3457	3.701+15	4.819+08	-21.707	1.055-08	39.942	4.339+08	-21.593	9.496-09	20.056
.0850	11.7647	3.527+15	8.483+08	-22.321	2.044-08	39.224	7.662+08	-22.211	1.847-08	19.334
.0890	11.2360	3.368+15	1.429+09	-22.888	3.776-08	38.558	1.289+09	-22.776	5.408-08	18.669
.0930	10.7527	3.224+15	4.881+10	-26.721	1.408-06	37.828	2.637+10	-26.053	7.608-07	17.997
.0975	10.2564	3.075+15	1.794+12	-30.635	5.689-05	37.112	1.489+12	-30.432	4.722-05	17.315
.1025	9.7561	2.925+15	2.517+12	-31.002	8.821-05	36.406	2.152+12	-30.832	7.542-05	16.645
.1075	9.3023	2.789+15	4.169+12	-31.550	1.607-04	35.714	4.305+12	-31.585	1.659-04	15.975
.1125	8.8889	2.665+15	6.008+12	-31.947	2.536-04	35.045	6.318+12	-32.001	2.667-04	15.305
.1175	8.5106	2.551+15	5.622+12	-31.875	2.589-04	34.397	5.675+12	-31.885	2.613-04	14.635
.1220	8.1967	2.457+15	2.368+12	-30.936	1.176-04	33.777	1.988+12	-30.746	9.870-05	13.965
.1270	7.8740	2.361+15	5.734+12	-31.896	3.085-04	33.188	5.825+12	-31.913	3.134-04	13.295
.1325	7.5472	2.263+15	5.824+12	-31.913	3.411-04	32.628	5.950+12	-31.936	3.484-04	12.625
.1375	7.2727	2.180+15	5.444+12	-31.840	3.433-04	32.096	5.554+12	-31.862	3.503-04	11.955
.1422	7.0323	2.108+15	5.236+12	-31.797	3.532-04	31.594	5.323+12	-31.815	3.590-04	11.285
.1482	6.7476	2.023+15	4.926+12	-31.731	3.609-04	31.122	4.983+12	-31.744	3.651-04	10.615
.1547	6.4641	1.938+15	4.407+12	-31.610	3.518-04	30.684	4.443+12	-31.619	3.547-04	9.945
.1598	6.2578	1.876+15	4.251+12	-31.571	3.621-04	30.266	4.276+12	-31.578	3.642-04	9.275
.1649	6.0643	1.818+15	3.834+12	-31.459	3.478-04	29.874	3.845+12	-31.462	3.488-04	8.605
.1730	5.7803	1.733+15	3.600+12	-31.391	3.594-04	29.506	3.610+12	-31.394	3.604-04	7.935
.1830	5.4645	1.638+15	3.201+12	-31.263	3.576-04	29.162	3.208+12	-31.266	3.584-04	7.265
.1930	5.1813	1.553+15	2.979+12	-31.185	3.701-04	28.842	2.975+12	-31.184	3.696-04	6.595
.2015	4.9628	1.488+15	2.696+12	-31.077	3.651-04	28.546	2.689+12	-31.074	3.642-04	5.925
.2100	4.7619	1.428+15	2.472+12	-30.983	3.636-04	28.274	2.464+12	-30.979	3.625-04	5.255
.2200	4.5455	1.363+15	2.236+12	-30.874	3.610-04	28.026	2.222+12	-30.867	3.587-04	4.585
.2300	4.3478	1.303+15	2.016+12	-30.761	3.557-04	27.794	2.002+12	-30.754	3.533-04	3.915
.2400	4.1667	1.249+15	1.821+12	-30.651	3.499-04	27.576	1.810+12	-30.644	3.478-04	3.245
.2482	4.0290	1.208+15	1.721+12	-30.589	3.536-04	27.374	1.710+12	-30.582	3.514-04	2.575
.2557	3.9106	1.172+15	1.624+12	-30.526	3.542-04	27.186	1.613+12	-30.519	3.518-04	1.905
.2660	3.7594	1.127+15	1.538+12	-30.467	3.630-04	26.994	1.526+12	-30.459	3.602-04	1.235
.2770	3.6101	1.082+15	1.406+12	-30.370	3.599-04	26.816	1.393+12	-30.360	3.565-04	0.565
.2870	3.4843	1.045+15	1.325+12	-30.306	3.640-04	26.654	1.313+12	-30.296	3.608-04	-0.105
.2970	3.3670	1.009+15	1.238+12	-30.232	3.643-04	26.506	1.226+12	-30.221	3.607-04	-0.775
.3070	3.2573	9.765+14	1.160+12	-30.161	3.647-04	26.374	1.149+12	-30.151	3.612-04	-1.445
.3170	3.1546	9.457+14	1.080+12	-30.084	3.620-04	26.256	1.069+12	-30.072	3.583-04	-2.115
.3270	3.0581	9.168+14	1.010+12	-30.011	3.602-04	26.152	1.000+12	-30.000	3.567-04	-2.785
.3370	2.9674	8.896+14	9.442+11	-29.938	3.577-04	26.062	9.350+11	-29.927	3.542-04	-3.455
.3480	2.8736	8.615+14	8.793+11	-29.860	3.552-04	25.984	8.706+11	-29.850	3.517-04	-4.125
.3600	2.7778	8.328+14	8.137+11	-29.776	3.518-04	25.916	8.057+11	-29.765	3.483-04	-4.795
.3700	2.7027	8.102+14	7.419+11	-29.688	3.480-04	25.862	7.426+11	-29.674	3.458-04	-5.465
.3800	2.6316	7.889+14	6.703+11	-29.600	3.440-04	25.814	6.703+11	-29.600	3.433-04	-6.135
.3900	2.5641	7.687+14	6.008+11	-29.520	3.400-04	25.774	6.008+11	-29.520	3.408-04	-6.805
.4000	2.5000	7.495+14	5.330+11	-29.440	3.360-04	25.740	5.330+11	-29.440	3.383-04	-7.475
.4200	2.3810	7.138+14	4.680+11	-29.356	3.290-04	25.612	4.680+11	-29.356	3.358-04	-8.145
.4400	2.2727	6.813+14	4.050+11	-29.270	3.220-04	25.494	4.050+11	-29.270	3.333-04	-8.815
.4600	2.1739	6.517+14	3.440+11	-29.184	3.150-04	25.386	3.440+11	-29.184	3.308-04	-9.485
.4800	2.0833	6.246+14	2.850+11	-29.098	3.080-04	25.288	2.850+11	-29.098	3.283-04	-10.155
.5000	2.0000	5.996+14	2.280+11	-29.012	3.010-04	25.194	2.280+11	-29.012	3.258-04	-10.825
.5200	1.9231	5.765+14	1.740+11	-28.926	2.940-04	25.106	1.740+11	-28.926	3.233-04	-11.495
.5400	1.8519	5.552+14	1.230+11	-28.840	2.870-04	25.022	1.230+11	-28.840	3.208-04	-12.165
.5600	1.7857	5.353+14	8.000+10	-28.754	2.800-04	24.942	8.000+10	-28.754	3.183-04	-12.835
.5800	1.7241	5.169+14	6.390+10	-28.668	2.730-04	24.866	6.390+10	-28.668	3.158-04	-13.505
.6050	1.6529	4.955+14	5.240+10	-28.582	2.660-04	24.794	5.240+10	-28.582	3.133-04	-14.175
.6350	1.5748	4.721+14	4.160+10	-28.496	2.590-04	24.726	4.160+10	-28.496	3.108-04	-14.845
.6650	1.5038	4.508+14	3.140+10	-28.410	2.520-04	24.662	3.140+10	-28.410	3.083-04	-15.515
.6950	1.4388	4.314+14	2.180+10	-28.324	2.450-04	24.602	2.180+10	-28.324	3.058-04	-16.185
.7250	1.3793	4.135+14	1.603+10	-28.238	2.380-04	24.546	1.603+10	-28.238	3.033-04	-16.855
.7550	1.3245	3.971+14	1.195+10	-28.152	2.310-04	24.494	1.195+10	-28.152	3.008-04	-17.525
.7850	1.2739	3.819+14	8.800+09	-28.066	2.240-04	24.446	8.800+09	-28.066	2.983-04	-18.195
.8100	1.2346	3.701+14	6.660+09	-27.980	2.170-04	24.402	6.660+09	-27.980	2.958-04	-18.865
.8350	1.1976	3.510+14	5.090+09	-27.894	2.100-04	24.362	5.090+09	-27.894	2.933-04	-19.535
.9000	1.1111	3.331+14	3.360+09	-27.808	2.030-04	24.326	3.360+09	-27.808	2.908-04	-20.205
1.0000	1.0000	2.998+14	2.200+09	-27.722	1.960-04	24.294	2.200+09	-27.722	2.883-04	-20.875
1.2000	.8333	2.498+14	1.413+09	-27.636	1.890-04	24.266	1.413+09	-27.636	2.858-04	-21.545
1.8000	.5556	1.666+14	8.660+08	-27.550	1.820-04	24.234	8.660+08	-27.550	2.833-04	-22.215
2.7000	.3704	1.110+14	4.428+08	-27.464	1.750-04	24.206	4.428+08	-27.464	2.808-04	-22.885
4.0000	.2500	7.495+13	3.124+08	-27.378	1.680-04	24.178	3.124+08	-27.378	2.783-04	-23.555
5.0000	.2000	5.996+13	1.308+08	-27.292	1.610-04	24.150	1.308+08	-27.292	2.758-04	-24.225
6.5000	.1538	4.612+13	6.666+07	-27.206	1.540-04	24.122	6.666+07	-27.206	2.733-04	-24.895



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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	
.0515	19.4175	5.821+15	1.123+07	-17.626	9.935-11	45.007	5.289+06	-16.808	4.679-11	25.825	
.0540	18.5185	5.552+15	2.837+07	-18.632	2.759-10	43.898	1.361+07	-17.835	1.324-10	24.695	
.0565	17.6991	5.306+15	6.481+07	-19.529	6.901-10	42.903	3.136+07	-18.741	3.339-10	23.691	
.0587	17.0358	5.107+15	1.067+08	-20.070	1.226-09	42.278	5.354+07	-19.322	6.154-10	23.027	
.0612	16.3399	4.899+15	2.233+08	-20.872	2.790-09	41.386	1.126+08	-20.129	1.407-09	22.129	
.0634	15.7729	4.729+15	3.587+08	-21.387	4.809-09	40.795	1.857+08	-20.672	2.490-09	21.510	
.0671	14.9031	4.468+15	7.406+08	-22.174	1.112-08	39.884	3.981+08	-21.500	5.979-09	20.558	
.0705	14.1844	4.252+15	1.395+09	-22.861	2.313-08	39.090	7.662+08	-22.211	1.270-08	19.740	
.0736	13.5870	4.073+15	2.243+09	-23.377	4.053-08	38.481	1.269+09	-22.759	2.293-08	19.099	
.0770	12.9870	3.893+15	3.859+09	-23.966	7.632-08	37.793	2.200+09	-23.356	4.351-08	18.404	
.0810	12.3457	3.701+15	6.301+09	-24.499	1.379-07	37.151	3.720+09	-23.926	8.141-08	17.723	
.0850	11.7647	3.527+15	9.559+09	-24.951	2.304-07	36.594	5.869+09	-24.421	1.414-07	17.124	
.0890	11.2360	3.368+15	1.515+10	-25.451	4.003-07	35.994	9.348+09	-24.927	2.470-07	16.518	
.0930	10.7527	3.224+15	2.182+12	-30.847	6.295-05	35.503	1.372+12	-30.343	3.958-05	11.006	
.0975	10.2564	3.075+15	2.567+12	-31.024	8.140-05	35.223	3.173+12	-31.254	1.006-04	9.993	
.1025	9.7561	2.925+15	4.452+12	-31.621	1.560-04	35.177	4.702+12	-31.681	1.648-04	9.458	
.1075	9.3023	2.789+15	4.624+12	-31.663	1.782-04	35.172	5.291+12	-31.809	2.040-04	9.226	
.1125	8.8889	2.665+15	5.948+12	-31.936	2.511-04	35.000	6.709+12	-32.067	2.832-04	8.870	
.1175	8.5106	2.551+15	6.087+12	-31.961	2.803-04	34.881	6.802+12	-32.082	3.133-04	8.760	
.1220	8.1967	2.457+15	4.229+12	-31.566	2.100-04	34.195	4.386+12	-31.605	2.178-04	9.155	
.1270	7.8740	2.361+15	6.465+12	-32.026	3.478-04	34.647	6.983+12	-32.110	3.757-04	8.563	
.1325	7.5472	2.263+15	6.591+12	-32.047	3.860-04	34.534	7.111+12	-32.130	4.164-04	8.451	
.1375	7.2727	2.180+15	6.107+12	-31.965	3.851-04	34.536	6.664+12	-32.059	4.203-04	8.441	
.1422	7.0323	2.108+15	6.143+12	-31.971	4.143-04	34.457	6.573+12	-32.044	4.433-04	8.383	
.1482	6.7476	2.023+15	6.166+12	-31.975	4.517-04	34.363	6.404+12	-32.016	4.692-04	8.322	
.1547	6.4641	1.938+15	5.748+12	-31.899	4.589-04	34.346	5.879+12	-31.923	4.693-04	8.321	
.1598	6.2578	1.876+15	5.637+12	-31.878	4.802-04	34.297	5.713+12	-31.892	4.866-04	8.282	
.1649	6.0643	1.818+15	5.296+12	-31.810	4.804-04	34.296	5.278+12	-31.806	4.787-04	8.300	
.1730	5.7803	1.733+15	5.021+12	-31.752	5.013-04	34.250	4.959+12	-31.738	4.951-04	8.263	
.1830	5.4645	1.638+15	4.533+12	-31.641	5.064-04	34.239	4.423+12	-31.614	4.941-04	8.266	
.1930	5.1813	1.553+15	4.288+12	-31.581	5.328-04	34.184	4.140+12	-31.543	5.144-04	8.222	
.2015	4.9628	1.488+15	4.000+12	-31.505	5.417-04	34.166	3.801+12	-31.450	5.148-04	8.221	
.2100	4.7619	1.428+15	3.712+12	-31.424	5.460-04	34.157	3.495+12	-31.359	5.141-04	8.222	
.2200	4.5455	1.363+15	3.432+12	-31.339	5.541-04	34.141	3.194+12	-31.261	5.157-04	8.219	
.2300	4.3478	1.303+15	3.128+12	-31.238	5.520-04	34.145	2.884+12	-31.150	5.089-04	8.233	
.2400	4.1667	1.249+15	2.855+12	-31.139	5.485-04	34.152	2.610+12	-31.042	5.015-04	8.249	
.2482	4.0290	1.208+15	2.679+12	-31.070	5.505-04	34.148	2.447+12	-30.972	5.028-04	8.246	
.2557	3.9108	1.172+15	2.522+12	-31.004	5.500-04	34.149	2.297+12	-30.903	5.010-04	8.250	
.2660	3.7594	1.127+15	2.359+12	-30.932	5.568-04	34.136	2.152+12	-30.832	5.079-04	8.236	
.2770	3.6161	1.082+15	2.153+12	-30.833	5.510-04	34.147	1.959+12	-30.730	5.014-04	8.250	
.2870	3.4843	1.045+15	2.008+12	-30.757	5.517-04	34.146	1.828+12	-30.655	5.022-04	8.248	
.2970	3.3670	1.009+15	1.858+12	-30.673	5.467-04	34.156	1.692+12	-30.571	4.978-04	8.257	
.3070	3.2573	9.765+14	1.724+12	-30.591	5.420-04	34.165	1.573+12	-30.492	4.945-04	8.265	
.3170	3.1546	9.457+14	1.599+12	-30.510	5.360-04	34.177	1.458+12	-30.409	4.887-04	8.277	
.3270	3.0581	9.168+14	1.484+12	-30.429	5.293-04	34.191	1.354+12	-30.329	4.829-04	8.290	
.3370	2.9674	8.896+14	1.378+12	-30.348	5.220-04	34.206	1.259+12	-30.250	4.769-04	8.304	
.3480	2.8736	8.615+14	1.289+12	-30.276	5.207-04	34.209	1.174+12	-30.174	4.742-04	8.310	
.3600	2.7778	8.328+14	1.182+12	-30.182	5.110-04	34.229	1.078+12	-30.082	4.660-04	8.329	
.3700	2.7027	8.102+14	1.422+12	-30.382	6.494-04	7.969	1.538+12	-30.467	7.023-04	7.884	
.3800	2.6316	7.889+14	1.323+12	-30.304	6.372-04	7.989	1.422+12	-30.382	6.849-04	7.911	
.3900	2.5641	7.687+14	1.233+12	-30.227	6.256-04	8.009	1.319+12	-30.301	6.692-04	7.936	
.4000	2.5000	7.495+14	1.149+12	-30.151	6.132-04	8.031	1.224+12	-30.219	6.533-04	7.962	
.4200	2.3810	7.138+14	1.001+12	-30.001	5.890-04	8.075	1.057+12	-30.060	6.219-04	8.016	
.4400	2.2727	6.813+14	8.757+11	-29.856	5.655-04	8.119	9.171+11	-29.906	5.922-04	8.069	
.4600	2.1739	6.517+14	7.687+11	-29.714	5.426-04	8.164	7.994+11	-29.757	5.642-04	8.121	
.4800	2.0833	6.246+14	6.772+11	-29.577	5.204-04	8.209	6.994+11	-29.612	5.375-04	8.174	
.5000	2.0000	5.996+14	5.986+11	-29.443	4.992-04	8.254	6.147+11	-29.472	5.126-04	8.226	
.5200	1.9231	5.765+14	5.308+11	-29.312	4.788-04	8.300	5.423+11	-29.336	4.891-04	8.276	
.5400	1.8519	5.552+14	4.722+11	-29.185	4.593-04	8.345	4.801+11	-29.203	4.670-04	8.327	
.5600	1.7857	5.353+14	4.214+11	-29.062	4.408-04	8.389	4.266+11	-29.075	4.462-04	8.376	
.5800	1.7241	5.169+14	3.770+11	-28.941	4.230-04	8.434	3.803+11	-28.950	4.267-04	8.425	
.6050	1.6529	4.955+14	3.294+11	-28.794	4.022-04	8.489	3.309+11	-28.799	4.040-04	8.484	
.6350	1.5748	4.721+14	2.816+11	-28.624	3.788-04	8.554	2.817+11	-28.624	3.789-04	8.554	
.6650	1.5038	4.508+14	2.421+11	-28.460	3.571-04	8.618	2.413+11	-28.456	3.559-04	8.622	
.6950	1.4388	4.314+14	2.092+11	-28.301	3.371-04	8.681	2.079+11	-28.295	3.350-04	8.687	
.7250	1.3793	4.135+14	1.817+11	-28.148	3.186-04	8.742	1.801+11	-28.139	3.158-04	8.752	
.7550	1.3245	3.971+14	1.585+11	-28.000	3.014-04	8.802	1.568+11	-27.988	2.981-04	8.814	
.7850	1.2739	3.819+14	1.391+11	-27.858	2.859-04	8.859	1.373+11	-27.844	2.822-04	8.874	
.8160	1.2346	3.701+14	1.249+11	-27.741	2.733-04	8.908	1.232+11	-27.727	2.696-04	8.923	
.8350	1.1976	3.590+14	1.169+11	-27.670	2.719-04	8.914	1.188+11	-27.687	2.763-04	8.897	
.9000	1.1111	3.331+14	9.014+10	-27.387	2.435-04	9.034	9.107+10	-27.398	2.461-04	9.022	
1.0000	1.0000	2.998+14	6.223+10	-26.985	2.076-04	9.207	6.242+10	-26.988	2.082-04	9.204	
1.2000	.8333	2.498+14	3.236+10	-26.275	1.554-04	9.521	3.216+10	-26.268	1.545-04	9.528	
1.8000	.5556	1.666+14	7.309+09	-24.660	7.899-05	10.256	7.231+09	-24.648	7.815-05	10.268	
2.7000	.3704	1.110+14	1.571+09	-22.990	3.820-05	11.045	1.548+09	-22.974	3.764-05	11.061	
4.0000	.2500	7.495+13	3.439+08	-21.341	1.835-05	11.841	3.380+08	-21.322	1.804-05	11.859	
5.0000	.2000	5.996+13	1.440+08	-20.396	1.201-05	12.301	1.414+08	-20.376	1.179-05	12.321	
6.5000	.1538	4.612+13	5.141+07	-19.278	7.245-06	12.850	5.042+07	-19.257	7.106-06	12.871	



		TEFF = 16000		LOG G = 3.0		TEFF = 16000		LOG G = 3.5		
LAMBDA (MICRON)	1/LAMBDA	NL	F (LAMBDA)	M (LAMBDA)	F (NU)	M (NU)	F (LAMBDA)	M (LAMBDA)	F (NL)	M (NU)
.6515	19.4175	5.821+15	3.455+06	-16.346	3.057-11	46.287	2.634+06	-16.052	2.330-11	26.581
.6540	18.5185	5.552+15	8.893+06	-17.373	8.650-11	45.157	6.724+06	-17.069	6.540-11	25.461
.6565	17.6991	5.306+15	2.052+07	-18.280	2.185-10	44.151	1.546+07	-17.973	1.646-10	24.459
.6587	17.0358	5.107+15	3.597+07	-18.890	4.134-10	43.459	2.764+07	-18.604	3.177-10	23.745
.6612	16.3399	4.899+15	7.523+07	-19.691	9.399-10	42.567	5.725+07	-19.394	7.152-10	22.864
.6634	15.7729	4.729+15	1.259+08	-20.250	1.688-09	41.932	9.655+07	-19.962	1.295-09	22.220
.6671	14.9031	4.468+15	2.756+08	-21.101	4.139-09	40.958	2.142+08	-20.827	3.217-09	21.231
.6705	14.1844	4.252+15	5.360+08	-21.823	8.886-09	40.128	4.187+08	-21.555	6.942-09	20.396
.6736	13.5870	4.073+15	9.032+08	-22.389	1.632-08	39.468	7.130+08	-22.133	1.288-08	19.725
.6770	12.9870	3.893+15	1.571+09	-22.990	3.107-08	38.769	1.241+09	-22.734	2.454-08	19.025
.6810	12.3457	3.701+15	2.706+09	-23.581	5.922-08	38.069	2.164+09	-23.338	4.736-08	18.311
.6850	11.7647	3.527+15	4.363+09	-24.099	1.051-07	37.445	3.539+09	-23.872	8.529-08	17.673
.6890	11.2360	3.368+15	6.968+09	-24.608	1.841-07	36.837	5.653+09	-24.381	1.494-07	17.064
.6930	10.7527	3.224+15	7.826+11	-29.734	2.258-05	36.161	3.659+11	-28.908	1.056-05	12.441
.6975	10.2564	3.075+15	3.551+12	-31.376	1.126-04	35.871	3.657+12	-31.408	1.160-04	9.839
.7025	9.7561	2.925+15	4.940+12	-31.734	1.731-04	35.404	4.957+12	-31.738	1.737-04	9.400
.7075	9.3023	2.789+15	5.995+12	-31.944	2.311-04	34.991	6.599+12	-32.049	2.544-04	8.986
.7125	8.8889	2.665+15	7.544+12	-32.194	3.185-04	34.742	8.282+12	-32.295	3.496-04	8.641
.7175	8.5106	2.551+15	7.474+12	-32.184	3.442-04	34.658	7.980+12	-32.255	3.675-04	8.587
.7220	8.1967	2.457+15	4.371+12	-31.601	2.170-04	34.159	4.180+12	-31.553	2.075-04	9.207
.7270	7.8740	2.361+15	7.459+12	-32.182	4.013-04	33.491	7.819+12	-32.233	4.207-04	8.440
.7325	7.5472	2.263+15	7.516+12	-32.190	4.401-04	33.391	7.807+12	-32.231	4.572-04	8.350
.7375	7.2727	2.180+15	7.022+12	-32.116	4.428-04	33.384	7.264+12	-32.153	4.581-04	8.348
.7422	7.0323	2.108+15	6.824+12	-32.085	4.603-04	33.342	6.988+12	-32.111	4.713-04	8.317
.7482	6.7476	2.023+15	6.522+12	-32.036	4.778-04	33.302	6.594+12	-32.048	4.831-04	8.290
.7547	6.4641	1.938+15	5.908+12	-31.929	4.716-04	33.316	5.920+12	-31.931	4.726-04	8.314
.7598	6.2578	1.876+15	5.701+12	-31.890	4.856-04	33.284	5.686+12	-31.887	4.843-04	8.287
.7649	6.0643	1.818+15	5.214+12	-31.793	4.729-04	33.313	5.165+12	-31.783	4.685-04	8.323
.7700	5.7803	1.733+15	4.867+12	-31.718	4.859-04	33.284	4.806+12	-31.704	4.798-04	8.297
.7830	5.4645	1.638+15	4.317+12	-31.588	4.822-04	33.292	4.252+12	-31.571	4.750-04	8.308
.7930	5.1813	1.553+15	4.008+12	-31.507	4.980-04	33.257	3.927+12	-31.485	4.879-04	8.279
.8015	4.9628	1.488+15	3.650+12	-31.406	4.943-04	33.265	3.558+12	-31.378	4.819-04	8.293
.8100	4.7619	1.428+15	3.342+12	-31.310	4.916-04	33.271	3.251+12	-31.280	4.782-04	8.301
.8200	4.5455	1.363+15	3.035+12	-31.205	4.900-04	33.275	2.940+12	-31.171	4.746-04	8.309
.8300	4.3478	1.303+15	2.731+12	-31.091	4.819-04	33.293	2.642+12	-31.055	4.662-04	8.329
.8400	4.1667	1.246+15	2.465+12	-30.980	4.736-04	33.311	2.381+12	-30.942	4.575-04	8.349
.8482	4.0290	1.208+15	2.312+12	-30.910	4.751-04	33.308	2.234+12	-30.873	4.591-04	8.345
.8557	3.9108	1.172+15	2.170+12	-30.841	4.733-04	33.312	2.097+12	-30.804	4.573-04	8.349
.8660	3.7594	1.127+15	2.035+12	-30.771	4.803-04	33.296	1.968+12	-30.735	4.645-04	8.333
.8770	3.6161	1.082+15	1.852+12	-30.669	4.740-04	33.311	1.790+12	-30.632	4.581-04	8.348
.8870	3.4843	1.045+15	1.730+12	-30.595	4.753-04	33.308	1.674+12	-30.559	4.599-04	8.343
.8970	3.3670	1.009+15	1.604+12	-30.513	4.720-04	33.315	1.553+12	-30.478	4.569-04	8.350
.9070	3.2573	9.765+14	1.493+12	-30.435	4.694-04	33.321	1.446+12	-30.400	4.546-04	8.356
.9170	3.1546	9.457+14	1.384+12	-30.353	4.639-04	33.334	1.341+12	-30.319	4.495-04	8.368
.9270	3.0581	9.168+14	1.287+12	-30.274	4.590-04	33.345	1.248+12	-30.241	4.451-04	8.379
.9370	2.9674	8.896+14	1.197+12	-30.195	4.535-04	33.359	1.161+12	-30.162	4.398-04	8.392
.9480	2.8736	8.615+14	1.113+12	-30.116	4.496-04	33.368	1.079+12	-30.083	4.359-04	8.402
.9600	2.7778	8.328+14	1.024+12	-30.026	4.427-04	33.385	9.931+11	-29.992	4.293-04	8.418
.9700	2.7027	8.102+14	1.579+12	-30.496	7.210-04	7.855	1.597+12	-30.508	7.293-04	7.843
.9800	2.6316	7.885+14	1.455+12	-30.407	7.008-04	7.886	1.468+12	-30.417	7.071-04	7.876
.9900	2.5641	7.687+14	1.346+12	-30.323	6.829-04	7.914	1.357+12	-30.331	6.885-04	7.905
1.0000	2.5000	7.495+14	1.247+12	-30.240	6.655-04	7.942	1.255+12	-30.247	6.698-04	7.935
1.2000	.8333	2.498+14	3.191+10	-26.260	1.533-04	9.536	3.172+10	-26.253	1.524-04	9.543
1.8000	.5556	1.666+14	7.167+09	-24.638	7.746-05	10.277	7.124+09	-24.632	7.699-05	10.284
2.7000	.3704	1.110+14	1.532+09	-22.963	3.725-05	11.072	1.522+09	-22.956	3.701-05	11.079
4.0000	.2500	7.495+13	3.344+08	-21.311	1.785-05	11.871	3.320+08	-21.303	1.772-05	11.879
5.0000	.2000	5.996+13	1.399+08	-20.365	1.167-05	12.333	1.388+08	-20.356	1.157-05	12.341
6.5000	.1538	4.612+13	4.987+07	-19.245	7.028-06	12.883	4.950+07	-19.237	6.976-06	12.891



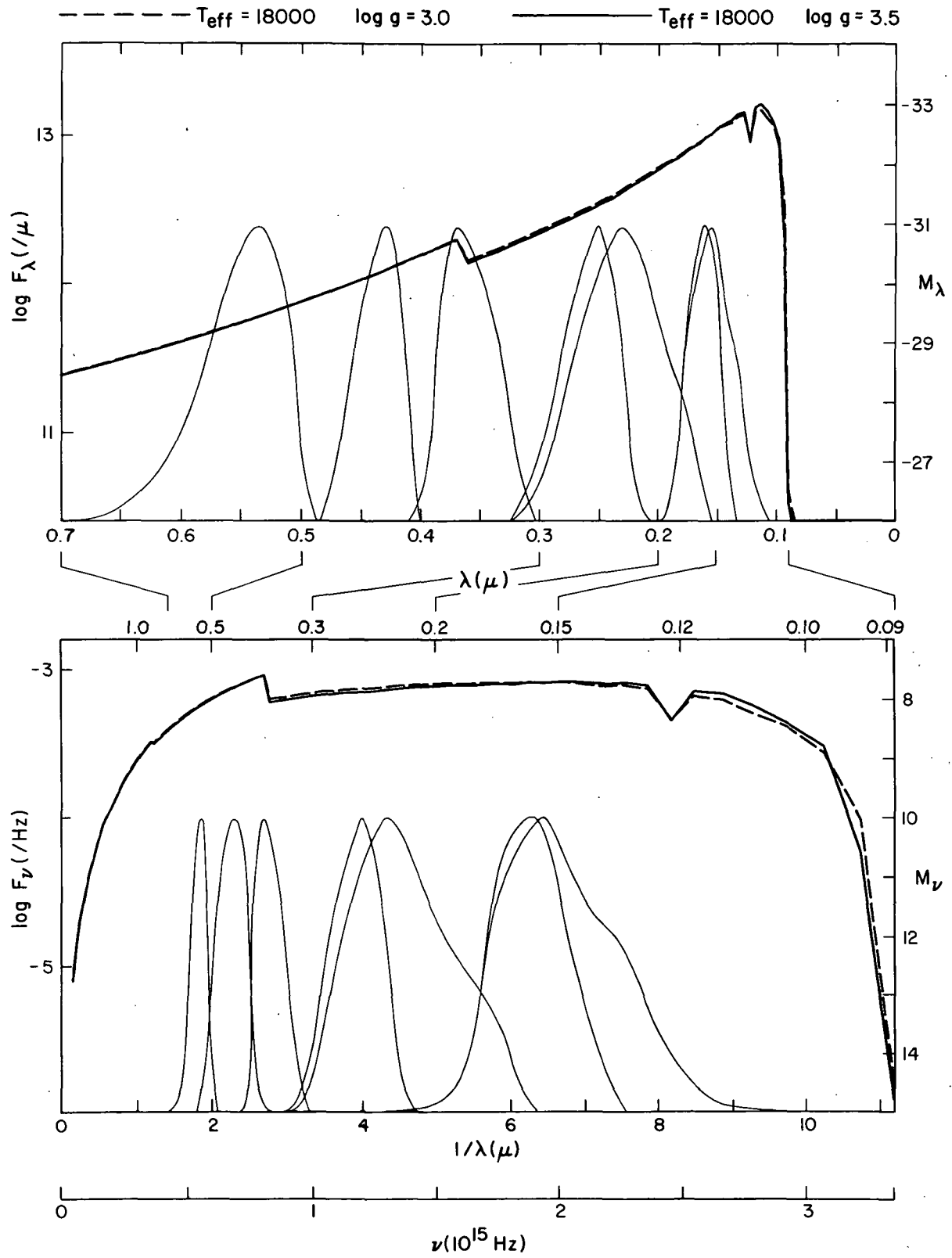
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LOG G = 4.0

TEFF = 16000

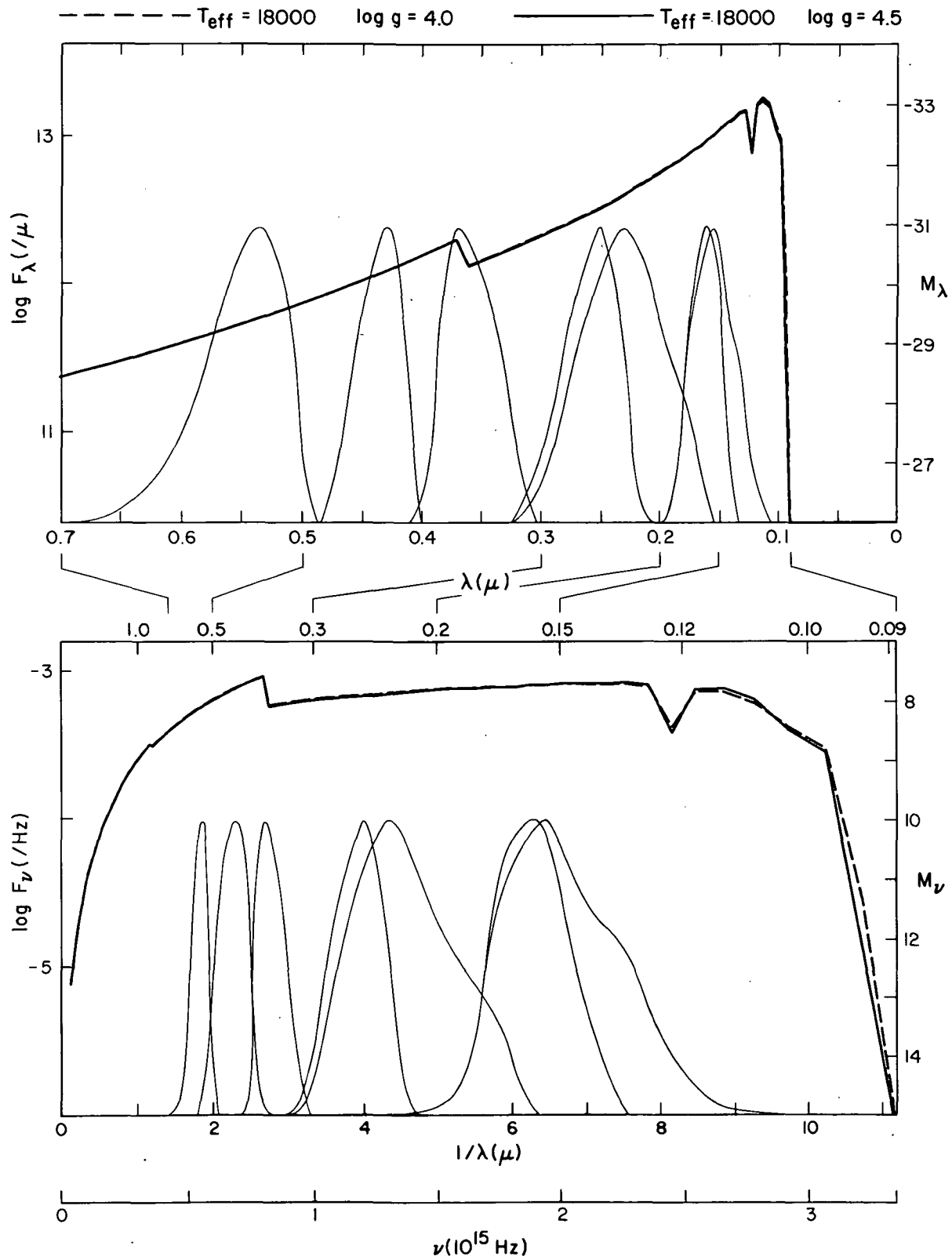
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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)
.0515	19.4175	5.821+15	2.196+06	-15.854	1.943-11	46.779	2.095+06	-15.803	1.853-11	26.830
.0540	18.5185	5.552+15	5.538+06	-16.858	5.387-11	45.672	5.228+06	-16.796	5.085-11	25.734
.0565	17.6991	5.306+15	1.264+07	-17.754	1.346-10	24.677	1.185+07	-17.684	1.262-10	24.748
.0587	17.0358	5.107+15	2.290+07	-18.400	2.632-10	43.949	2.171+07	-18.342	2.495-10	24.007
.0612	16.3399	4.899+15	4.690+07	-19.178	5.859-10	43.080	4.396+07	-19.108	5.492-10	23.151
.0634	15.7729	4.729+15	7.931+07	-19.748	1.063-09	42.433	7.447+07	-19.680	9.985-10	22.502
.0671	14.9031	4.468+15	1.771+08	-20.621	2.660-09	41.438	1.667+08	-20.555	2.504-09	21.504
.0705	14.1844	4.252+15	3.464+08	-21.349	5.743-09	40.602	3.256+08	-21.282	5.398-09	20.669
.0736	13.5870	4.073+15	5.934+08	-21.933	1.072-08	49.924	5.591+08	-21.869	1.010-08	19.989
.0770	12.9870	3.893+15	1.032+09	-22.534	2.041-08	49.225	9.675+08	-22.464	1.913-08	19.295
.0810	12.3457	3.701+15	1.811+09	-23.145	3.963-08	48.505	1.703+09	-23.078	3.727-08	18.572
.0850	11.7647	3.527+15	2.988+09	-23.688	7.201-08	47.857	2.814+09	-23.623	6.782-08	17.922
.0860	11.2360	3.368+15	4.774+09	-24.197	1.261-07	47.248	4.483+09	-24.129	1.164-07	17.316
.0930	10.7527	3.224+15	1.551+11	-27.977	4.475-06	43.373	7.491+10	-27.186	2.161-06	14.163
.0975	10.2564	3.075+15	3.487+12	-31.356	1.106-04	9.891	3.046+12	-31.209	9.659-05	10.038
.1025	9.7561	2.925+15	4.707+12	-31.682	1.650-04	9.457	4.200+12	-31.558	1.472-04	9.580
.1075	9.3023	2.789+15	7.057+12	-32.122	2.720-04	8.913	7.370+12	-32.169	2.841-04	8.866
.1125	8.8889	2.665+15	8.866+12	-32.369	3.743-04	8.567	9.323+12	-32.424	3.936-04	8.512
.1175	8.5106	2.551+15	8.297+12	-32.927	3.821-04	8.545	8.439+12	-32.316	3.886-04	8.526
.1220	8.1967	2.457+15	3.824+12	-31.456	1.899-04	9.304	3.326+12	-31.305	1.651-04	9.455
.1270	7.8740	2.361+15	8.068+12	-32.267	4.341-04	8.406	8.216+12	-32.287	4.420-04	8.386
.1325	7.5472	2.263+15	8.020+12	-32.260	4.697-04	8.321	8.184+12	-32.282	4.793-04	8.299
.1375	7.2727	2.180+15	7.446+12	-32.180	4.696-04	8.321	7.590+12	-32.201	4.787-04	8.300
.1422	7.0323	2.108+15	7.116+12	-32.131	4.800-04	8.297	7.224+12	-32.147	4.873-04	8.281
.1482	6.7476	2.023+15	6.657+12	-32.058	4.877-04	8.280	6.720+12	-32.068	4.923-04	8.269
.1547	6.4641	1.938+15	5.944+12	-31.935	4.745-04	8.309	5.979+12	-31.942	4.773-04	8.303
.1598	6.2578	1.876+15	5.692+12	-31.888	4.848-04	8.286	5.715+12	-31.893	4.868-04	8.282
.1649	6.0643	1.818+15	5.148+12	-31.779	4.669-04	8.327	5.151+12	-31.780	4.672-04	8.326
.1730	5.7803	1.733+15	4.784+12	-31.699	4.776-04	8.302	4.786+12	-31.700	4.778-04	8.302
.1830	5.4645	1.638+15	4.228+12	-31.565	4.723-04	8.314	4.227+12	-31.565	4.722-04	8.315
.1930	5.1813	1.553+15	3.890+12	-31.475	4.833-04	8.289	3.879+12	-31.472	4.820-04	8.292
.2015	4.9628	1.488+15	3.514+12	-31.365	4.759-04	8.306	3.499+12	-31.360	4.739-04	8.311
.2100	4.7619	1.428+15	3.208+12	-31.266	4.719-04	8.315	3.192+12	-31.260	4.695-04	8.321
.2200	4.5455	1.363+15	2.892+12	-31.153	4.669-04	8.327	2.869+12	-31.144	4.632-04	8.336
.2300	4.3478	1.303+15	2.596+12	-31.036	4.581-04	8.348	2.575+12	-31.027	4.544-04	8.356
.2400	4.1667	1.249+15	2.338+12	-30.922	4.492-04	8.369	2.320+12	-30.914	4.457-04	8.377
.2482	4.0290	1.208+15	2.194+12	-30.853	4.508-04	8.365	2.177+12	-30.845	4.473-04	8.373
.2557	3.9108	1.172+15	2.059+12	-30.784	4.491-04	8.369	2.042+12	-30.775	4.453-04	8.378
.2660	3.7594	1.127+15	1.932+12	-30.715	4.560-04	8.353	1.914+12	-30.705	4.517-04	8.363
.2770	3.6101	1.082+15	1.757+12	-30.612	4.497-04	8.368	1.740+12	-30.601	4.453-04	8.378
.2870	3.4843	1.045+15	1.643+12	-30.539	4.514-04	8.364	1.628+12	-30.529	4.473-04	8.374
.2970	3.3670	1.009+15	1.525+12	-30.458	4.487-04	8.370	1.511+12	-30.448	4.446-04	8.380
.3070	3.2573	9.765+14	1.420+12	-30.381	4.464-04	8.376	1.407+12	-30.371	4.423-04	8.386
.3170	3.1546	9.457+14	1.317+12	-30.299	4.415-04	8.388	1.305+12	-30.289	4.374-04	8.398
.3270	3.0581	9.168+14	1.226+12	-30.221	4.373-04	8.398	1.214+12	-30.211	4.330-04	8.409
.3370	2.9674	8.896+14	1.142+12	-30.144	4.326-04	8.410	1.131+12	-30.134	4.285-04	8.420
.3480	2.8736	8.615+14	1.059+12	-30.062	4.278-04	8.422	1.049+12	-30.052	4.238-04	8.432
.3600	2.7778	8.328+14	9.757+11	-29.973	4.218-04	8.437	9.663+11	-29.963	4.177-04	8.448
.3700	2.7027	8.102+14	1.608+12	-30.516	7.343-04	7.835	1.615+12	-30.520	7.375-04	7.831
.3800	2.6316	7.889+14	1.476+12	-30.423	7.109-04	7.870	1.481+12	-30.426	7.133-04	7.867
.3900	2.5641	7.687+14	1.363+12	-30.336	6.915-04	7.900	1.368+12	-30.340	6.941-04	7.897
.4000	2.5000	7.495+14	1.260+12	-30.251	6.725-04	7.931	1.263+12	-30.254	6.741-04	7.928
.4200	2.3810	7.138+14	1.079+12	-30.083	6.349-04	7.993	1.080+12	-30.084	6.355-04	7.992
.4400	2.2727	6.813+14	9.284+11	-29.919	5.995-04	8.055	9.287+11	-29.920	5.997-04	8.055
.4600	2.1739	6.517+14	8.061+11	-29.766	5.690-04	8.112	8.067+11	-29.767	5.694-04	8.111
.4800	2.0833	6.246+14	6.996+11	-29.612	5.377-04	8.174	6.988+11	-29.611	5.370-04	8.175
.5000	2.0000	5.996+14	6.139+11	-29.470	5.119-04	8.227	6.138+11	-29.470	5.119-04	8.227
.5200	1.9231	5.765+14	5.395+11	-29.330	4.866-04	8.282	5.392+11	-29.329	4.863-04	8.283
.5400	1.8519	5.552+14	4.761+11	-29.194	4.631-04	8.336	4.757+11	-29.193	4.627-04	8.337
.5600	1.7857	5.353+14	4.219+11	-29.063	4.413-04	8.388	4.213+11	-29.061	4.407-04	8.390
.5800	1.7241	5.169+14	3.752+11	-28.936	4.210-04	8.439	3.746+11	-28.934	4.203-04	8.441
.6050	1.6529	4.955+14	3.256+11	-28.782	3.975-04	8.502	3.250+11	-28.780	3.968-04	8.504
.6350	1.5748	4.721+14	2.765+11	-28.604	3.719-04	8.574	2.759+11	-28.602	3.711-04	8.576
.6650	1.5038	4.508+14	2.360+11	-28.432	3.481-04	8.646	2.354+11	-28.430	3.472-04	8.648
.6950	1.4388	4.314+14	2.033+11	-28.270	3.276-04	8.712	2.028+11	-28.268	3.268-04	8.714
.7250	1.3793	4.135+14	1.759+11	-28.113	3.084-04	8.777	1.754+11	-28.110	3.075-04	8.780
.7550	1.3245	3.971+14	1.529+11	-27.961	2.907-04	8.841	1.525+11	-27.958	2.900-04	8.844
.7850	1.2739	3.819+14	1.337+11	-27.815	2.748-04	8.902	1.333+11	-27.812	2.740-04	8.906
.8100	1.2346	3.701+14	1.199+11	-27.697	2.624-04	8.953	1.195+11	-27.693	2.615-04	8.956
.8350	1.1976	3.590+14	1.164+11	-27.683	2.754-04	8.900	1.183+11	-27.682	2.751-04	8.901
.9000	1.1111	3.331+14	9.037+10	-27.390	2.442-04	9.031	9.029+10	-27.389	2.440-04	9.032
1.0000	1.0000	2.998+14	6.167+10	-26.975	2.057-04	9.217	6.158+10	-26.974	2.054-04	9.218
1.2000	.8333	2.498+14	3.161+10	-26.250	1.518-04	9.547	3.155+10	-26.247	1.515-04	9.549
1.8000	.5556	1.666+14	7.099+09	-24.628	7.672-05	10.288	7.084+09	-24.626	7.656-05	10.290
2.7000	.3704	1.110+14	1.516+09	-22.952	3.686-05	11.083	1.512+09	-22.949	3.677-05	11.086
4.0000	.2500	7.495+13	3.305+08	-21.298	1.764-05	11.884	3.297+08	-21.295	1.760-05	11.886
5.0000	.2000	5.996+13	1.382+08	-20.351	1.152-05	12.346	1.378+08	-20.348	1.149-05	12.349
6.5000	.1538	4.612+13	4.926+07	-19.231	6.942-06	12.896	4.913+07	-19.228	6.924-06	12.899





		TEFF = 18000				LOG G = 3.0		TEFF = 18000				LOG G = 3.5	
LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)			
.0515	19.4175	5.821+15	6.683+07	-19.562	5.912-10	43.071	4.913+07	-19.228	4.347-10	23.405			
.0540	18.5185	5.552+15	1.529+08	-20.461	1.487-09	42.069	1.127+08	-20.130	1.096-09	22.400			
.0565	17.6991	5.306+15	3.172+08	-21.253	3.378-09	41.178	2.337+08	-20.922	2.488-09	21.510			
.0587	17.0358	5.107+15	4.996+08	-21.747	5.742-09	40.602	3.741+08	-21.432	4.300-09	20.916			
.0612	16.3399	4.899+15	9.571+08	-22.452	1.196-08	39.806	7.141+08	-22.134	8.922-09	20.124			
.0634	15.7729	4.729+15	1.466+09	-22.915	1.966-08	39.266	1.105+09	-22.608	1.482-08	19.573			
.0671	14.9031	4.468+15	2.807+09	-23.621	4.216-08	38.438	2.148+09	-23.330	3.226-08	18.728			
.0705	14.1844	4.252+15	4.929+09	-24.232	8.172-08	37.719	3.798+09	-23.949	6.297-08	18.002			
.0736	13.5870	4.073+15	7.540+09	-24.693	1.362-07	37.164	5.882+09	-24.424	1.063-07	17.434			
.0770	12.9870	3.893+15	1.212+10	-25.209	2.397-07	36.551	9.452+09	-24.939	1.869-07	16.821			
.0810	12.3457	3.701+15	1.879+10	-25.685	4.112-07	35.965	1.487+10	-25.431	3.254-07	16.219			
.0850	11.7647	3.527+15	2.738+10	-26.094	6.599-07	35.451	2.205+10	-25.859	5.314-07	15.686			
.0890	11.2360	3.368+15	4.077+10	-26.526	1.077-06	34.919	3.279+10	-26.289	8.664-07	15.156			
.0930	10.7527	3.224+15	3.297+12	-31.295	9.512-05	34.054	1.968+12	-30.735	5.678-05	10.615			
.0975	10.2564	3.075+15	8.522+12	-32.326	2.702-04	8.921	9.326+12	-32.424	2.957-04	8.823			
.1025	9.7561	2.925+15	1.163+13	-32.664	4.076-04	8.211	1.215+13	-32.711	4.258-04	8.427			
.1075	9.3023	2.789+15	1.293+13	-32.779	4.984-04	8.256	1.448+13	-32.902	5.582-04	8.133			
.1125	8.8889	2.665+15	1.466+13	-32.915	6.189-04	8.021	1.605+13	-33.014	6.776-04	7.923			
.1175	8.5106	2.551+15	1.422+13	-32.882	6.549-04	7.960	1.525+13	-32.958	7.023-04	7.884			
.1220	8.1967	2.457+15	9.090+12	-32.396	4.513-04	8.364	8.897+12	-32.373	4.417-04	8.387			
.1270	7.8740	2.361+15	1.361+13	-32.835	7.322-04	7.838	1.420+13	-32.881	7.640-04	7.792			
.1325	7.5472	2.263+15	1.321+13	-32.802	7.736-04	7.779	1.369+13	-32.841	8.017-04	7.740			
.1375	7.2727	2.180+15	1.207+13	-32.704	7.612-04	7.796	1.251+13	-32.743	7.889-04	7.757			
.1422	7.0323	2.108+15	1.164+13	-32.665	7.851-04	7.763	1.192+13	-32.691	8.040-04	7.737			
.1476	6.7476	2.023+15	1.114+13	-32.617	8.161-04	7.721	1.121+13	-32.624	8.213-04	7.714			
.1547	6.4641	1.938+15	1.006+13	-32.506	8.031-04	7.738	1.004+13	-32.504	8.015-04	7.740			
.1598	6.2578	1.876+15	9.583+12	-32.454	8.163-04	7.720	9.506+12	-32.445	8.097-04	7.729			
.1649	6.0643	1.818+15	8.805+12	-32.362	7.986-04	7.744	8.661+12	-32.344	7.856-04	7.762			
.1730	5.7803	1.733+15	8.094+12	-32.270	8.080-04	7.731	7.935+12	-32.249	7.922-04	7.753			
.1830	5.4645	1.638+15	7.106+12	-32.129	7.938-04	7.751	6.938+12	-32.103	7.750-04	7.777			
.1930	5.1813	1.553+15	6.456+12	-32.025	8.022-04	7.739	6.274+12	-31.994	7.795-04	7.770			
.2015	4.9626	1.488+15	5.863+12	-31.920	7.941-04	7.750	5.666+12	-31.883	7.674-04	7.787			
.2100	4.7619	1.428+15	5.324+12	-31.816	7.832-04	7.765	5.132+12	-31.776	7.549-04	7.805			
.2200	4.5455	1.363+15	4.794+12	-31.702	7.740-04	7.778	4.604+12	-31.658	7.433-04	7.822			
.2300	4.3478	1.303+15	4.289+12	-31.581	7.568-04	7.803	4.110+12	-31.535	7.252-04	7.849			
.2400	4.1667	1.245+15	3.850+12	-31.464	7.397-04	7.827	3.683+12	-31.416	7.076-04	7.875			
.2482	4.0290	1.208+15	3.571+12	-31.382	7.338-04	7.836	3.418+12	-31.334	7.024-04	7.884			
.2557	3.9108	1.172+15	3.322+12	-31.303	7.245-04	7.850	3.179+12	-31.256	6.933-04	7.898			
.2660	3.7594	1.127+15	3.058+12	-31.214	7.217-04	7.854	2.929+12	-31.167	6.913-04	7.901			
.2770	3.6101	1.082+15	2.758+12	-31.101	7.059-04	7.878	2.642+12	-31.055	6.762-04	7.925			
.2870	3.4843	1.045+15	2.546+12	-31.015	6.995-04	7.888	2.441+12	-30.969	6.707-04	7.934			
.2970	3.3670	1.009+15	2.336+12	-30.921	6.873-04	7.907	2.241+12	-30.876	6.594-04	7.952			
.3070	3.2573	9.765+14	2.150+12	-30.831	6.759-04	7.925	2.065+12	-30.787	6.492-04	7.969			
.3170	3.1546	9.457+14	1.982+12	-30.743	6.646-04	7.944	1.904+12	-30.699	6.382-04	7.988			
.3270	3.0581	9.168+14	1.828+12	-30.655	6.520-04	7.964	1.758+12	-30.613	6.270-04	8.007			
.3370	2.9674	8.896+14	1.689+12	-30.569	6.398-04	7.985	1.625+12	-30.527	6.156-04	8.027			
.3480	2.8736	8.615+14	1.571+12	-30.490	6.346-04	7.994	1.508+12	-30.446	6.092-04	8.038			
.3600	2.7778	8.328+14	1.434+12	-30.391	6.199-04	8.019	1.377+12	-30.347	5.953-04	8.063			
.3700	2.7027	8.102+14	1.986+12	-30.745	9.069-04	7.606	2.002+12	-30.754	9.142-04	7.597			
.3800	2.6316	7.889+14	1.827+12	-30.654	8.800-04	7.639	1.838+12	-30.661	8.853-04	7.632			
.3900	2.5641	7.687+14	1.684+12	-30.566	8.544-04	7.671	1.692+12	-30.571	8.584-04	7.666			
.4000	2.5000	7.495+14	1.555+12	-30.479	8.299-04	7.702	1.560+12	-30.483	8.326-04	7.699			
.4200	2.3810	7.138+14	1.332+12	-30.311	7.838-04	7.765	1.332+12	-30.311	7.838-04	7.765			
.4400	2.2727	6.813+14	1.146+12	-30.148	7.401-04	7.827	1.144+12	-30.146	7.388-04	7.829			
.4600	2.1739	6.517+14	9.923+11	-29.992	7.004-04	7.887	9.889+11	-29.988	6.980-04	7.890			
.4800	2.0833	6.246+14	8.629+11	-29.840	6.632-04	7.946	8.582+11	-29.834	6.596-04	7.952			
.5000	2.0000	5.996+14	7.542+11	-29.694	6.289-04	8.003	7.494+11	-29.687	6.249-04	8.010			
.5200	1.9231	5.765+14	6.620+11	-29.552	5.971-04	8.060	6.571+11	-29.544	5.927-04	8.068			
.5400	1.8519	5.552+14	5.835+11	-29.415	5.676-04	8.115	5.785+11	-29.406	5.627-04	8.124			
.5600	1.7857	5.353+14	5.162+11	-29.282	5.400-04	8.169	5.114+11	-29.272	5.350-04	8.179			
.5800	1.7241	5.169+14	4.584+11	-29.153	5.144-04	8.222	4.539+11	-29.142	5.093-04	8.233			
.6050	1.6529	4.955+14	3.971+11	-28.997	4.848-04	8.286	3.929+11	-28.986	4.797-04	8.298			
.6350	1.5748	4.721+14	3.365+11	-28.817	4.526-04	8.361	3.327+11	-28.805	4.475-04	8.373			
.6650	1.5038	4.508+14	2.871+11	-28.645	4.235-04	8.433	2.836+11	-28.632	4.183-04	8.446			
.6950	1.4388	4.314+14	2.464+11	-28.479	3.970-04	8.503	2.434+11	-28.466	3.922-04	8.516			
.7250	1.3793	4.135+14	2.127+11	-28.319	3.729-04	8.571	2.100+11	-28.306	3.682-04	8.585			
.7550	1.3245	3.971+14	1.846+11	-28.166	3.510-04	8.637	1.822+11	-28.151	3.464-04	8.651			
.7850	1.2739	3.819+14	1.612+11	-28.018	3.313-04	8.699	1.590+11	-28.003	3.268-04	8.714			
.8100	1.2346	3.701+14	1.443+11	-27.898	3.158-04	8.751	1.424+11	-27.884	3.116-04	8.766			
.8350	1.1976	3.590+14	1.386+11	-27.854	3.223-04	8.729	1.377+11	-27.847	3.202-04	8.736			
.9000	1.1111	3.331+14	1.056+11	-27.559	2.853-04	8.862	1.048+11	-27.551	2.832-04	8.870			
1.0000	1.0000	2.998+14	7.192+10	-27.142	2.399-04	9.050	7.131+10	-27.133	2.379-04	9.059			
1.2000	0.8333	2.498+14	3.671+10	-26.412	1.763-04	9.384	3.635+10	-26.401	1.746-04	9.395			
1.8000	0.5556	1.666+14	8.123+09	-24.774	8.779-05	10.141	8.044+09	-24.764	8.694-05	10.152			
2.7000	0.3704	1.110+14	1.722+09	-23.090	4.187-05	10.945	1.704+09	-23.079	4.144-05	10.957			
4.0000	0.2500	7.495+13	3.739+08	-21.432	1.996-05	11.750	3.698+08	-21.420	1.974-05	11.762			
5.0000	0.2000	5.996+13	1.560+08	-20.483	1.301-05	12.214	1.543+08	-20.471	1.287-05	12.226			
6.5000	0.1538	4.612+13	5.552+07	-19.361	7.824-06	12.766	5.490+07	-19.349	7.737-06	12.776			



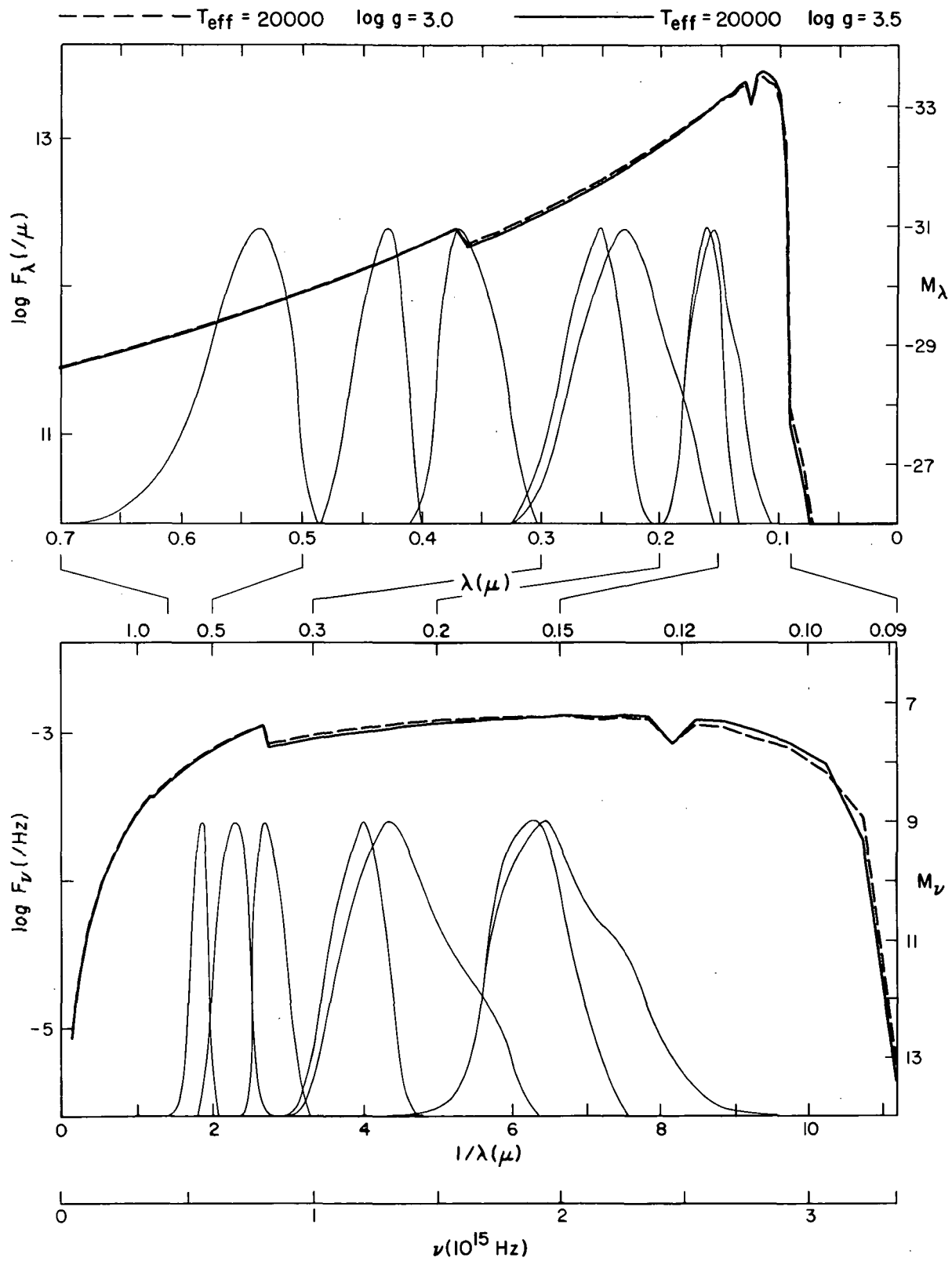
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LOG G = 4.0

TEFF = 18000

LOG G = 4.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0515	19.4175	5.821+15	3.852+07	-18.964	3.408-10	23.669	3.498+07	-18.860	3.095-10	23.773
.0540	18.5185	5.552+15	8.794+07	-19.860	8.554-10	22.670	7.920+07	-19.747	7.704-10	22.783
.0565	17.6991	5.306+15	1.818+08	-20.649	1.936-09	21.783	1.630+08	-20.530	1.736-09	21.901
.0587	17.0358	5.107+15	2.951+08	-21.175	3.392-09	21.174	2.687+08	-21.073	3.088-09	21.276
.0612	16.3399	4.899+15	5.596+08	-21.870	6.991-09	20.389	5.044+08	-21.757	6.302-09	20.501
.0634	15.7729	4.729+15	8.720+08	-22.351	1.169-08	19.830	7.898+08	-22.244	1.059-08	19.938
.0671	14.9031	4.468+15	1.712+09	-23.084	2.571-08	18.975	1.561+09	-22.984	2.344-08	19.075
.0705	14.1844	4.252+15	3.037+09	-23.706	5.035-08	18.245	2.771+09	-23.607	4.594-08	18.345
.0736	13.5870	4.073+15	4.746+09	-24.191	8.576-08	17.667	4.357+09	-24.098	7.873-08	17.760
.0770	12.9870	3.893+15	7.618+09	-24.705	1.507-07	17.055	6.975+09	-24.609	1.379-07	17.151
.0810	12.3457	3.701+15	1.210+10	-25.207	2.648-07	16.443	1.114+10	-25.117	2.438-07	16.532
.0850	11.7647	3.527+15	1.818+10	-25.649	4.381-07	15.896	1.685+10	-25.566	4.061-07	15.978
.0890	11.2360	3.368+15	2.702+10	-26.079	7.139-07	15.366	2.498+10	-25.994	6.600-07	15.451
.0930	10.7527	3.224+15	1.000+12	-30.000	2.885-05	11.350	4.805+11	-29.204	1.386-05	12.145
.0975	10.2564	3.075+15	9.468+12	-32.441	3.002-04	8.806	8.896+12	-32.373	2.821-04	8.874
.1025	9.7561	2.925+15	1.206+13	-32.703	4.222-04	8.435	1.138+13	-32.640	3.988-04	8.498
.1075	9.3023	2.789+15	1.570+13	-32.990	6.052-04	8.045	1.660+13	-33.050	6.399-04	7.985
.1125	8.8889	2.665+15	1.715+13	-33.086	7.240-04	7.851	1.802+13	-33.139	7.607-04	7.797
.1175	8.5166	2.551+15	1.593+13	-33.006	7.336-04	7.836	1.635+13	-33.034	7.530-04	7.808
.1220	8.1967	2.457+15	8.360+12	-32.309	4.165-04	8.451	7.629+12	-32.206	3.788-04	8.554
.1270	7.8740	2.361+15	1.460+13	-32.911	7.855-04	7.762	1.487+13	-32.931	8.000-04	7.742
.1325	7.5472	2.263+15	1.400+13	-32.865	8.199-04	7.716	1.425+13	-32.885	8.345-04	7.696
.1375	7.2727	2.180+15	1.280+13	-32.768	8.072-04	7.733	1.303+13	-32.787	8.217-04	7.713
.1422	7.0323	2.108+15	1.210+13	-32.707	8.161-04	7.721	1.226+13	-32.721	8.269-04	7.706
.1482	6.7476	2.023+15	1.125+13	-32.628	8.242-04	7.710	1.130+13	-32.633	8.279-04	7.705
.1547	6.4641	1.938+15	1.002+13	-32.502	7.999-04	7.742	1.003+13	-32.503	8.007-04	7.741
.1598	6.2578	1.876+15	9.453+12	-32.439	8.052-04	7.735	9.446+12	-32.438	8.046-04	7.736
.1649	6.0643	1.818+15	8.569+12	-32.332	7.772-04	7.774	8.534+12	-32.328	7.741-04	7.778
.1730	5.7803	1.733+15	7.840+12	-32.236	7.827-04	7.766	7.806+12	-32.231	7.793-04	7.771
.1830	5.4645	1.638+15	6.845+12	-32.088	7.646-04	7.791	6.808+12	-32.083	7.605-04	7.797
.1930	5.1813	1.553+15	6.173+12	-31.976	7.670-04	7.788	6.130+12	-31.969	7.616-04	7.796
.2015	4.9628	1.488+15	5.556+12	-31.862	7.525-04	7.809	5.505+12	-31.852	7.456-04	7.819
.2100	4.7619	1.428+15	5.027+12	-31.753	7.395-04	7.828	4.978+12	-31.743	7.323-04	7.838
.2200	4.5455	1.363+15	4.498+12	-31.633	7.262-04	7.847	4.445+12	-31.620	7.176-04	7.860
.2300	4.3478	1.303+15	4.011+12	-31.508	7.078-04	7.875	3.962+12	-31.495	6.991-04	7.889
.2400	4.1667	1.249+15	3.590+12	-31.388	6.898-04	7.903	3.545+12	-31.374	6.811-04	7.917
.2482	4.0290	1.208+15	3.334+12	-31.307	6.851-04	7.911	3.292+12	-31.294	6.765-04	7.924
.2557	3.9108	1.172+15	3.100+12	-31.228	6.761-04	7.925	3.060+12	-31.214	6.674-04	7.939
.2660	3.7594	1.127+15	2.858+12	-31.140	6.745-04	7.927	2.822+12	-31.126	6.660-04	7.941
.2770	3.6101	1.082+15	2.577+12	-31.028	6.596-04	7.952	2.544+12	-31.014	6.511-04	7.966
.2870	3.4843	1.045+15	2.383+12	-30.943	6.547-04	7.960	2.354+12	-30.930	6.468-04	7.973
.2970	3.3670	1.009+15	2.189+12	-30.851	6.441-04	7.978	2.162+12	-30.837	6.361-04	7.991
.3070	3.2573	9.765+14	2.018+12	-30.762	6.344-04	7.994	1.993+12	-30.749	6.266-04	8.008
.3170	3.1546	9.457+14	1.860+12	-30.674	6.235-04	8.013	1.837+12	-30.660	6.158-04	8.026
.3270	3.0581	9.168+14	1.718+12	-30.588	6.128-04	8.032	1.697+12	-30.574	6.053-04	8.045
.3370	2.9674	8.896+14	1.589+12	-30.503	6.020-04	8.051	1.570+12	-30.490	5.948-04	8.064
.3480	2.8736	8.615+14	1.470+12	-30.418	5.938-04	8.066	1.450+12	-30.403	5.857-04	8.081
.3600	2.7778	8.328+14	1.344+12	-30.321	5.810-04	8.090	1.325+12	-30.306	5.728-04	8.105
.3700	2.7027	8.102+14	2.009+12	-30.757	9.174-04	7.594	2.013+12	-30.760	9.192-04	7.591
.3800	2.6316	7.889+14	1.842+12	-30.663	8.872-04	7.630	1.844+12	-30.664	8.882-04	7.629
.3900	2.5641	7.687+14	1.694+12	-30.572	8.595-04	7.664	1.696+12	-30.574	8.605-04	7.663
.4000	2.5000	7.495+14	1.561+12	-30.484	8.331-04	7.698	1.562+12	-30.484	8.336-04	7.698
.4200	2.3810	7.138+14	1.331+12	-30.310	7.832-04	7.765	1.330+12	-30.310	7.826-04	7.766
.4400	2.2727	6.813+14	1.141+12	-30.143	7.368-04	7.832	1.140+12	-30.142	7.362-04	7.833
.4600	2.1739	6.517+14	9.860+11	-29.985	6.959-04	7.894	9.845+11	-29.983	6.949-04	7.895
.4800	2.0833	6.246+14	8.542+11	-29.829	6.565-04	7.957	8.519+11	-29.826	6.547-04	7.960
.5000	2.0000	5.996+14	7.460+11	-29.682	6.221-04	8.015	7.443+11	-29.679	6.207-04	8.018
.5200	1.9231	5.765+14	6.536+11	-29.538	5.895-04	8.074	6.519+11	-29.535	5.880-04	8.077
.5400	1.8519	5.552+14	5.752+11	-29.400	5.595-04	8.131	5.735+11	-29.396	5.578-04	8.134
.5600	1.7857	5.353+14	5.083+11	-29.265	5.317-04	8.186	5.067+11	-29.262	5.300-04	8.189
.5800	1.7241	5.169+14	4.509+11	-29.135	5.060-04	8.240	4.494+11	-29.132	5.043-04	8.243
.6050	1.6529	4.955+14	3.902+11	-28.978	4.764-04	8.305	3.888+11	-28.974	4.747-04	8.309
.6350	1.5748	4.721+14	3.303+11	-28.797	4.443-04	8.381	3.290+11	-28.793	4.425-04	8.385
.6650	1.5038	4.508+14	2.814+11	-28.623	4.151-04	8.455	2.801+11	-28.618	4.132-04	8.460
.6950	1.4388	4.314+14	2.415+11	-28.457	3.891-04	8.525	2.404+11	-28.452	3.873-04	8.530
.7250	1.3793	4.135+14	2.083+11	-28.297	3.652-04	8.594	2.074+11	-28.292	3.636-04	8.598
.7550	1.3245	3.971+14	1.807+11	-28.142	3.436-04	8.660	1.799+11	-28.138	3.421-04	8.665
.7850	1.2739	3.819+14	1.577+11	-27.995	3.242-04	8.723	1.569+11	-27.989	3.225-04	8.729
.8100	1.2346	3.701+14	1.411+11	-27.874	3.088-04	8.776	1.404+11	-27.868	3.073-04	8.781
.8350	1.1976	3.590+14	1.371+11	-27.843	3.189-04	8.741	1.367+11	-27.839	3.179-04	8.744
.9000	1.1111	3.331+14	1.043+11	-27.546	2.818-04	8.875	1.040+11	-27.543	2.810-04	8.878
1.0000	1.0000	2.998+14	7.089+10	-27.126	2.365-04	9.066	7.067+10	-27.123	2.357-04	9.069
1.2000	.8333	2.498+14	3.612+10	-26.394	1.735-04	9.402	3.598+10	-26.390	1.728-04	9.406
1.8000	.5556	1.666+14	7.995+09	-24.757	8.641-05	10.159	7.966+09	-24.753	8.609-05	10.163
2.7000	.3704	1.110+14	1.694+09	-23.072	4.119-05	10.963	1.687+09	-23.068	4.102-05	10.967
4.0000	.2500	7.495+13	3.674+08	-21.413	1.961-05	11.769	3.660+08	-21.409	1.953-05	11.773
5.0000	.2000	5.996+13	1.532+08	-20.463	1.278-05	12.234	1.526+08	-20.459	1.273-05	12.238
6.5000	.1538	4.612+13	5.450+07	-19.341	7.681-06	12.786	5.428+07	-19.337	7.650-06	12.791



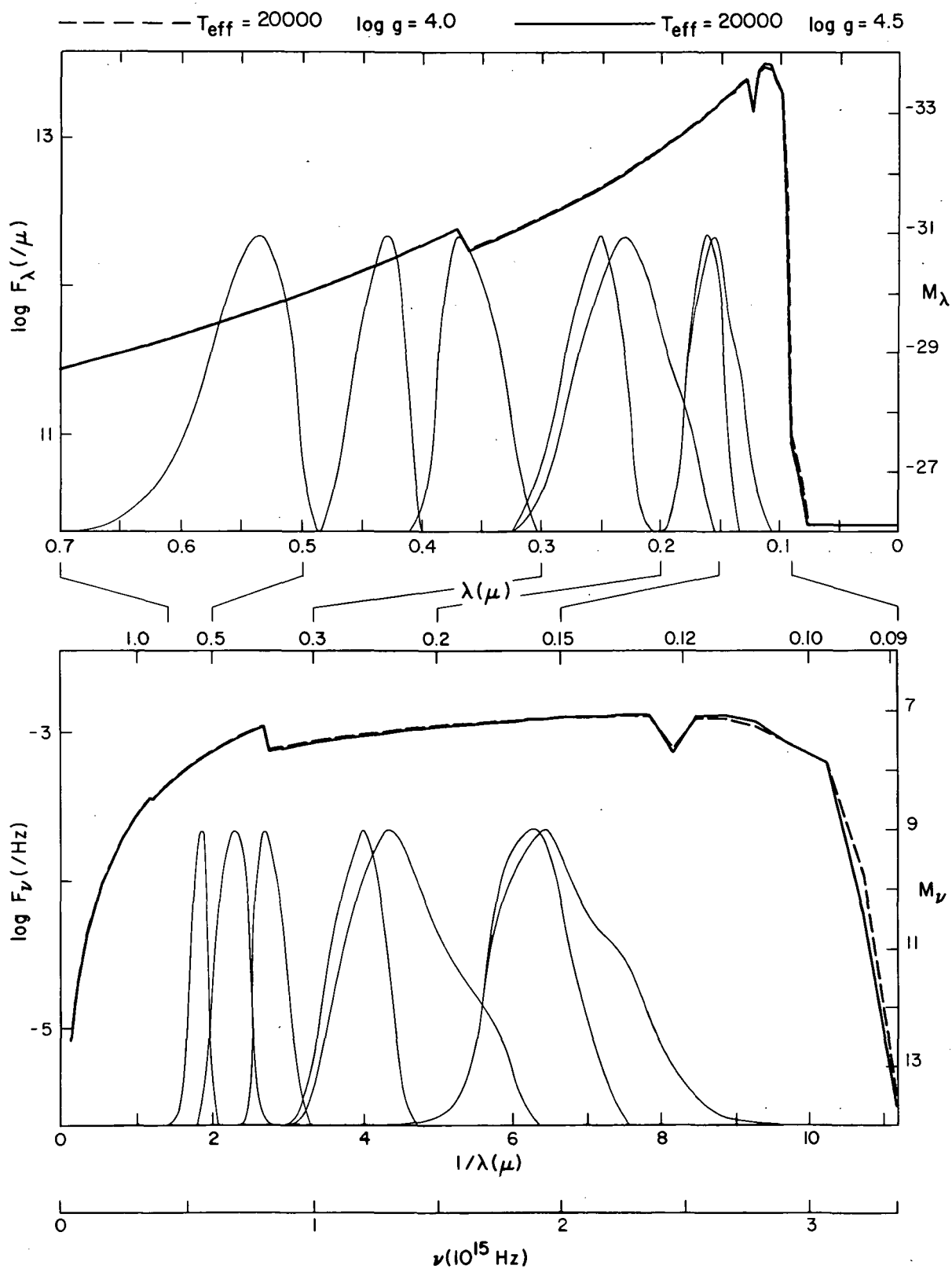
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LOG G = 3.5

LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.6515	19.4175	5.821+15	7.032+08	-22.118	6.221-09	40.515	4.727+08	-21.686	4.182-09	20.947
.6540	18.5185	5.552+15	1.408+09	-22.872	1.370-08	19.659	9.673+08	-22.464	9.409-09	20.066
.6565	17.6991	5.306+15	2.664+09	-23.564	2.837-08	18.868	1.837+09	-23.160	1.956-08	19.272
.6587	17.0358	5.107+15	3.911+09	-23.981	4.495-08	18.368	2.723+09	-23.588	3.130-08	18.761
.6612	16.3399	4.899+15	6.820+09	-24.584	8.521-08	17.674	4.796+09	-24.202	5.992-08	18.056
.6634	15.7729	4.729+15	9.684+09	-24.965	1.298-07	17.216	6.909+09	-24.599	9.263-08	17.583
.6671	14.9031	4.468+15	1.657+10	-25.548	2.489-07	16.510	1.205+10	-25.202	1.810-07	16.856
.6705	14.1844	4.252+15	2.667+10	-26.065	4.422-07	15.886	1.962+10	-25.732	3.253-07	16.219
.6736	13.5870	4.073+15	3.774+10	-26.442	6.819-07	15.416	2.816+10	-26.124	5.088-07	15.734
.6770	12.9870	3.893+15	5.694+10	-26.889	1.126-06	14.871	4.255+10	-26.572	8.415-07	15.187
.6810	12.3457	3.701+15	8.111+10	-27.273	1.775-06	14.377	6.169+10	-26.976	1.350-06	14.674
.6850	11.7647	3.527+15	1.088+11	-27.592	2.622-06	13.953	8.451+10	-27.317	2.037-06	14.228
.6890	11.2360	3.368+15	1.536+11	-27.966	4.058-06	13.479	1.193+11	-27.662	3.152-06	13.754
.6930	10.7527	3.224+15	9.200+12	-32.409	2.654-04	8.940	6.352+12	-32.007	1.833-04	9.342
.6975	10.2564	3.075+15	1.670+13	-33.057	5.295-04	8.190	1.890+13	-33.191	5.993-04	8.056
.7025	9.7561	2.925+15	2.236+13	-33.374	7.765-04	7.765	2.385+13	-33.444	8.358-04	7.695
.7075	9.3023	2.789+15	2.341+13	-33.424	9.024-04	7.612	2.634+13	-33.552	1.015-03	7.483
.7125	8.8889	2.665+15	2.544+13	-33.514	1.074-03	7.422	2.773+13	-33.607	1.171-03	7.329
.7175	8.5106	2.551+15	2.419+13	-33.459	1.114-03	7.383	2.596+13	-33.536	1.196-03	7.306
.7220	8.1967	2.457+15	1.676+13	-33.061	8.321-04	7.700	1.655+13	-33.047	8.217-04	7.713
.7270	7.8740	2.361+15	2.260+13	-33.385	1.216-03	7.288	2.350+13	-33.428	1.264-03	7.245
.7325	7.5472	2.263+15	2.136+13	-33.324	1.251-03	7.257	2.204+13	-33.358	1.291-03	7.223
.7375	7.2727	2.180+15	1.905+13	-33.200	1.201-03	7.301	1.975+13	-33.239	1.246-03	7.262
.7422	7.0323	2.108+15	1.828+13	-33.155	1.233-03	7.273	1.870+13	-33.180	1.261-03	7.248
.7482	6.7476	2.023+15	1.759+13	-33.113	1.289-03	7.225	1.762+13	-33.115	1.291-03	7.223
.7547	6.4641	1.938+15	1.574+13	-32.993	1.257-03	7.252	1.568+13	-32.988	1.252-03	7.256
.7598	6.2578	1.876+15	1.494+13	-32.936	1.273-03	7.238	1.473+13	-32.921	1.255-03	7.254
.7649	6.0643	1.818+15	1.381+13	-32.850	1.253-03	7.255	1.349+13	-32.825	1.224-03	7.281
.7730	5.7803	1.733+15	1.251+13	-32.743	1.249-03	7.259	1.217+13	-32.713	1.215-03	7.289
.7830	5.4645	1.638+15	1.088+13	-32.592	1.215-03	7.288	1.053+13	-32.556	1.176-03	7.324
.7930	5.1813	1.553+15	9.729+12	-32.470	1.209-03	7.294	9.369+12	-32.429	1.164-03	7.335
.8015	4.9628	1.488+15	8.798+12	-32.361	1.192-03	7.310	8.424+12	-32.314	1.141-03	7.357
.8100	4.7619	1.428+15	7.928+12	-32.248	1.166-03	7.333	7.569+12	-32.198	1.113-03	7.383
.8200	4.5455	1.363+15	7.090+12	-32.127	1.145-03	7.353	6.741+12	-32.072	1.088-03	7.408
.8300	4.3478	1.303+15	6.300+12	-31.998	1.112-03	7.385	5.976+12	-31.941	1.054-03	7.442
.8400	4.1667	1.249+15	5.628+12	-31.876	1.081-03	7.415	5.328+12	-31.816	1.024-03	7.475
.8482	4.0290	1.208+15	5.170+12	-31.784	1.062-03	7.434	4.902+12	-31.726	1.007-03	7.492
.8557	3.9108	1.172+15	4.790+12	-31.701	1.045-03	7.453	4.531+12	-31.640	9.882-04	7.513
.8660	3.7594	1.127+15	4.346+12	-31.595	1.026-03	7.472	4.116+12	-31.536	9.714-04	7.531
.8770	3.6101	1.082+15	3.884+12	-31.473	9.941-04	7.506	3.680+12	-31.415	9.419-04	7.565
.8870	3.4843	1.045+15	3.554+12	-31.377	9.765-04	7.526	3.370+12	-31.319	9.259-04	7.584
.8970	3.3670	1.009+15	3.236+12	-31.275	9.521-04	7.553	3.071+12	-31.218	9.036-04	7.610
.9070	3.2573	9.765+14	2.956+12	-31.177	9.293-04	7.580	2.807+12	-31.121	8.825-04	7.636
.9170	3.1546	9.457+14	2.709+12	-31.082	9.080-04	7.605	2.574+12	-31.027	8.628-04	7.660
.9270	3.0581	9.168+14	2.484+12	-30.988	8.860-04	7.631	2.362+12	-30.933	8.425-04	7.686
.9370	2.9674	8.896+14	2.281+12	-30.895	8.641-04	7.659	2.171+12	-30.842	8.224-04	7.712
.9480	2.8736	8.615+14	2.116+12	-30.814	8.548-04	7.670	2.014+12	-30.760	8.136-04	7.724
.9600	2.7778	8.328+14	1.919+12	-30.708	8.296-04	7.703	1.827+12	-30.654	7.898-04	7.756
.9700	2.7027	8.102+14	1.743+12	-30.668	1.114-03	7.383	2.448+12	-30.972	1.118-03	7.379
.9800	2.6316	7.889+14	2.240+12	-30.876	1.079-03	7.418	2.243+12	-30.877	1.080-03	7.416
.9900	2.5641	7.687+14	2.061+12	-30.785	1.046-03	7.452	2.061+12	-30.785	1.046-03	7.452
.4000	2.5000	7.495+14	1.899+12	-30.696	1.014-03	7.485	1.896+12	-30.695	1.012-03	7.487
.4200	2.3810	7.138+14	1.620+12	-30.524	9.532-04	7.552	1.613+12	-30.519	9.491-04	7.557
.4400	2.2727	6.813+14	1.390+12	-30.358	8.976-04	7.617	1.381+12	-30.350	8.918-04	7.624
.4600	2.1739	6.517+14	1.200+12	-30.198	8.470-04	7.680	1.189+12	-30.188	8.392-04	7.690
.4800	2.0833	6.246+14	1.040+12	-30.043	7.993-04	7.743	1.029+12	-30.031	7.908-04	7.755
.5000	2.0000	5.996+14	9.068+11	-29.894	7.562-04	7.803	8.962+11	-29.881	7.474-04	7.816
.5200	1.9231	5.765+14	7.939+11	-29.749	7.161-04	7.863	7.836+11	-29.735	7.068-04	7.877
.5400	1.8519	5.552+14	6.980+11	-29.610	6.789-04	7.920	6.883+11	-29.594	6.695-04	7.936
.5600	1.7857	5.353+14	6.162+11	-29.474	6.446-04	7.977	6.071+11	-29.458	6.351-04	7.993
.5800	1.7241	5.169+14	5.460+11	-29.343	6.127-04	8.032	5.376+11	-29.326	6.032-04	8.049
.6050	1.6529	4.955+14	4.718+11	-29.184	5.760-04	8.099	4.641+11	-29.167	5.666-04	8.117
.6350	1.5748	4.721+14	3.986+11	-29.001	5.361-04	8.177	3.918+11	-29.083	5.270-04	8.196
.6650	1.5038	4.508+14	3.392+11	-28.826	5.004-04	8.252	3.333+11	-28.807	4.917-04	8.271
.6950	1.4388	4.314+14	2.904+11	-28.657	4.679-04	8.325	2.852+11	-28.638	4.595-04	8.344
.7250	1.3793	4.135+14	2.501+11	-28.495	4.385-04	8.395	2.455+11	-28.475	4.304-04	8.415
.7550	1.3245	3.971+14	2.166+11	-28.339	4.118-04	8.463	2.126+11	-28.319	4.042-04	8.483
.7850	1.2739	3.819+14	1.888+11	-28.190	3.881-04	8.528	1.853+11	-28.170	3.809-04	8.548
.8100	1.2346	3.701+14	1.688+11	-28.068	3.694-04	8.581	1.656+11	-28.048	3.624-04	8.602
.8350	1.1976	3.590+14	1.598+11	-28.009	3.716-04	8.575	1.580+11	-27.997	3.675-04	8.587
.9000	1.1111	3.331+14	1.215+11	-27.711	3.283-04	8.709	1.200+11	-27.698	3.242-04	8.723
1.0000	1.0000	2.998+14	8.240+10	-27.290	2.749-04	8.902	8.130+10	-27.275	2.712-04	8.917
1.2000	.8333	2.498+14	4.183+10	-26.554	2.099-04	9.242	4.121+10	-26.538	1.979-04	9.259
1.8000	.5556	1.666+14	9.141+09	-24.902	9.879-05	10.013	9.007+09	-24.886	9.734-05	10.029
2.7000	.3704	1.110+14	1.924+09	-23.211	4.679-05	10.825	1.895+09	-23.194	4.608-05	10.841
4.0000	.2500	7.495+13	4.159+08	-21.547	2.220-05	11.634	4.094+08	-21.530	2.185-05	11.651
5.0000	.2000	5.996+13	1.731+08	-20.596	1.443-05	12.101	1.704+08	-20.579	1.421-05	12.119
6.5000	.1538	4.612+13	6.146+07	-19.471	8.662-06	12.656	6.049+07	-19.454	8.525-06	12.673



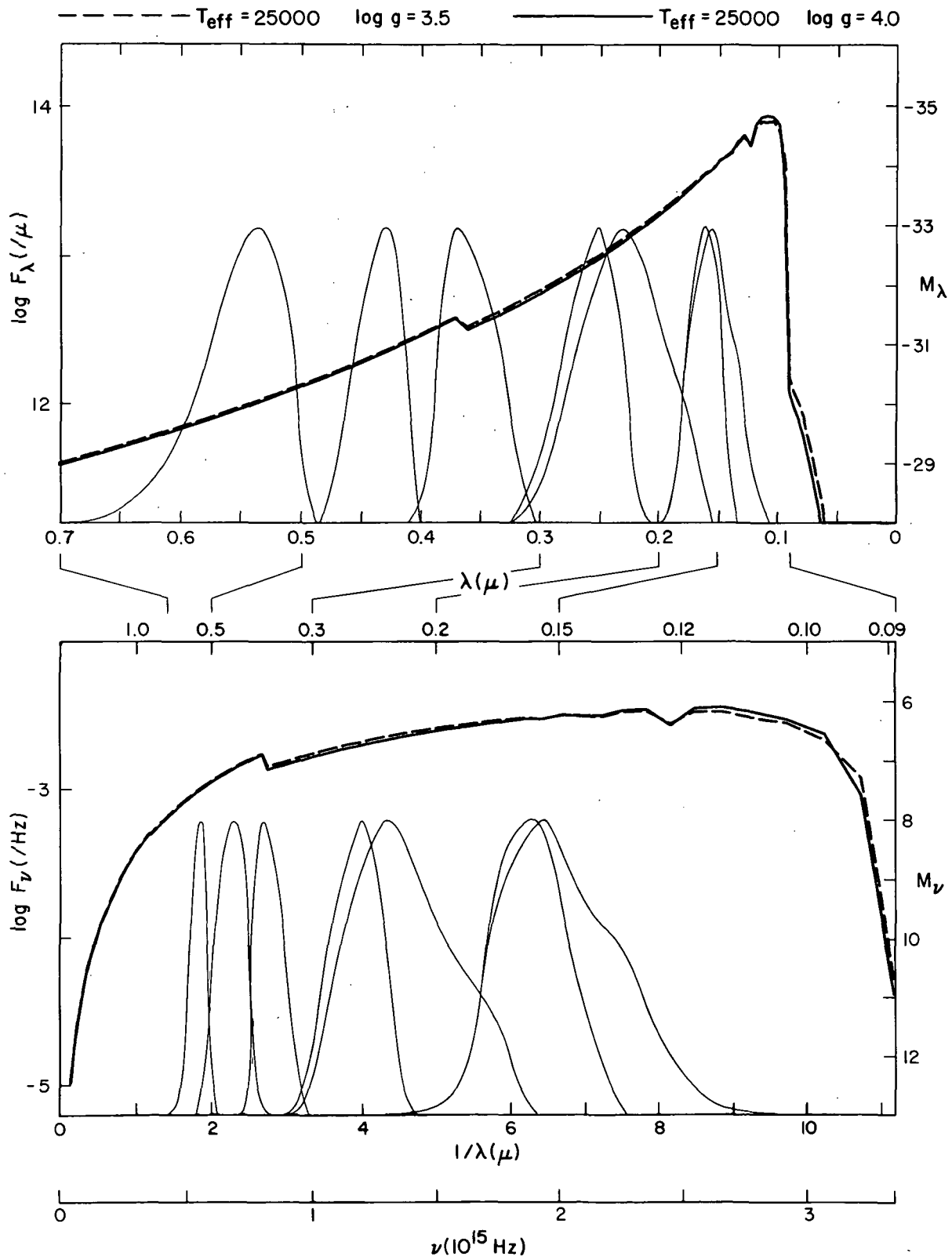
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LOG G = 4.5

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NU)
.0515	19.4175	5.821+15	3.765+08	-21.439	3.331-09	41.194	3.126+08	-21.237	2.766-09	21.396
.0540	18.5185	5.552+15	7.763+08	-22.225	7.551-09	40.305	6.452+08	-22.024	6.276-09	20.506
.0565	17.6991	5.306+15	1.473+09	-22.921	1.568-08	19.511	1.220+09	-22.716	1.299-08	19.716
.0587	17.0358	5.107+15	2.207+09	-23.360	2.537-08	18.989	1.840+09	-23.162	2.115-08	19.187
.0612	16.3399	4.899+15	3.886+09	-23.974	4.855-08	18.285	3.229+09	-23.773	4.034-08	18.486
.0634	15.7729	4.729+15	5.654+09	-24.381	7.581-08	17.801	4.724+09	-24.186	6.334-08	17.996
.0671	14.9031	4.468+15	9.992+09	-24.999	1.501-07	17.059	8.413+09	-24.812	1.263-07	17.246
.0705	14.1844	4.252+15	1.637+10	-25.535	2.714-07	16.416	1.381+10	-25.350	2.290-07	16.601
.0736	13.5870	4.073+15	2.374+10	-25.939	4.290-07	15.919	2.019+10	-25.763	3.648-07	16.095
.0770	12.9870	3.893+15	3.583+10	-26.386	7.086-07	15.374	3.041+10	-26.208	6.014-07	15.552
.0810	12.3457	3.701+15	5.258+10	-26.802	1.151-06	14.848	4.501+10	-26.633	9.851-07	15.016
.0850	11.7647	3.527+15	7.312+10	-27.160	1.762-06	14.385	6.325+10	-27.003	1.524-06	14.542
.0890	11.2360	3.368+15	1.029+11	-27.531	2.719-06	13.914	8.891+10	-27.372	2.349-06	14.073
.0930	10.7527	3.224+15	3.852+12	-31.464	1.111-04	9.885	2.105+12	-30.808	6.073-05	10.542
.0975	10.2564	3.075+15	2.000+13	-33.253	6.342-04	7.994	1.983+13	-33.243	6.288-04	8.004
.1025	9.7561	2.925+15	2.438+13	-33.468	8.544-04	7.671	2.392+13	-33.447	8.383-04	7.692
.1075	9.3023	2.789+15	2.881+13	-33.649	1.111-03	7.386	3.083+13	-33.722	1.188-03	7.313
.1125	8.8889	2.665+15	2.963+13	-33.679	1.251-03	7.257	3.123+13	-33.736	1.318-03	7.200
.1175	8.5106	2.551+15	2.725+13	-33.588	1.255-03	7.253	2.819+13	-33.625	1.298-03	7.217
.1220	8.1967	2.457+15	1.589+13	-33.003	7.889-04	7.757	1.487+13	-32.931	7.383-04	7.829
.1270	7.8740	2.361+15	2.412+13	-33.456	1.298-03	7.217	2.462+13	-33.478	1.325-03	7.195
.1325	7.5472	2.263+15	2.250+13	-33.380	1.318-03	7.201	2.291+13	-33.400	1.342-03	7.181
.1375	7.2727	2.180+15	2.020+13	-33.263	1.274-03	7.237	2.061+13	-33.285	1.300-03	7.215
.1422	7.0323	2.108+15	1.896+13	-33.195	1.279-03	7.233	1.924+13	-33.211	1.298-03	7.217
.1482	6.7476	2.023+15	1.761+13	-33.114	1.290-03	7.223	1.768+13	-33.119	1.295-03	7.219
.1547	6.4641	1.938+15	1.560+13	-32.983	1.245-03	7.262	1.560+13	-32.983	1.245-03	7.262
.1598	6.2578	1.876+15	1.457+13	-32.909	1.241-03	7.266	1.453+13	-32.906	1.238-03	7.269
.1649	6.0643	1.818+15	1.327+13	-32.807	1.204-03	7.299	1.317+13	-32.799	1.195-03	7.307
.1730	5.7803	1.733+15	1.195+13	-32.693	1.193-03	7.308	1.186+13	-32.685	1.184-03	7.317
.1830	5.4645	1.638+15	1.031+13	-32.533	1.192-03	7.347	1.022+13	-32.524	1.142-03	7.356
.1930	5.1813	1.553+15	9.154+12	-32.404	1.137-03	7.360	9.057+12	-32.392	1.125-03	7.372
.2015	4.9628	1.488+15	8.203+12	-32.285	1.111-03	7.386	8.096+12	-32.271	1.096-03	7.400
.2100	4.7619	1.428+15	7.362+12	-32.167	1.083-03	7.413	7.261+12	-32.152	1.068-03	7.428
.2200	4.5455	1.363+15	6.539+12	-32.039	1.056-03	7.441	6.437+12	-32.022	1.039-03	7.458
.2300	4.3478	1.303+15	5.793+12	-31.907	1.022-03	7.476	5.698+12	-31.889	1.005-03	7.494
.2400	4.1667	1.249+15	5.159+12	-31.781	9.912-04	7.510	5.071+12	-31.763	9.743-04	7.528
.2482	4.0290	1.208+15	4.750+12	-31.692	9.761-04	7.526	4.671+12	-31.674	9.598-04	7.545
.2557	3.9108	1.172+15	4.388+12	-31.606	9.570-04	7.548	4.312+12	-31.587	9.404-04	7.567
.2660	3.7594	1.127+15	3.989+12	-31.502	9.415-04	7.565	3.921+12	-31.483	9.254-04	7.584
.2770	3.6101	1.082+15	3.567+12	-31.381	9.129-04	7.599	3.507+12	-31.362	8.976-04	7.617
.2870	3.4843	1.045+15	3.269+12	-31.286	8.982-04	7.617	3.215+12	-31.268	8.833-04	7.635
.2970	3.3670	1.009+15	2.980+12	-31.186	8.768-04	7.643	2.931+12	-31.168	8.624-04	7.661
.3070	3.2573	9.765+14	2.726+12	-31.089	8.570-04	7.668	2.681+12	-31.071	8.429-04	7.686
.3170	3.1546	9.457+14	2.500+12	-30.995	8.380-04	7.692	2.459+12	-30.977	8.242-04	7.710
.3270	3.0581	9.168+14	2.295+12	-30.902	8.186-04	7.717	2.257+12	-30.884	8.050-04	7.735
.3370	2.9674	8.896+14	2.110+12	-30.811	7.993-04	7.743	2.076+12	-30.793	7.864-04	7.761
.3480	2.8736	8.615+14	1.954+12	-30.727	7.893-04	7.757	1.917+12	-30.707	7.744-04	7.778
.3600	2.7778	8.328+14	1.774+12	-30.622	7.669-04	7.788	1.742+12	-30.603	7.531-04	7.808
.3700	2.7027	8.102+14	2.448+12	-30.972	1.118-03	7.379	2.449+12	-30.972	1.118-03	7.379
.3800	2.6316	7.889+14	2.241+12	-30.876	1.079-03	7.417	2.240+12	-30.876	1.079-03	7.418
.3900	2.5641	7.687+14	2.057+12	-30.783	1.044-03	7.454	2.055+12	-30.782	1.043-03	7.455
.4000	2.5000	7.495+14	1.891+12	-30.692	1.009-03	7.490	1.888+12	-30.690	1.008-03	7.492
.4200	2.3810	7.138+14	1.606+12	-30.514	9.450-04	7.561	1.602+12	-30.512	9.426-04	7.564
.4400	2.2727	6.813+14	1.373+12	-30.344	8.867-04	7.631	1.369+12	-30.341	8.841-04	7.634
.4600	2.1739	6.517+14	1.182+12	-30.182	8.343-04	7.697	1.177+12	-30.177	8.308-04	7.701
.4800	2.0833	6.246+14	1.022+12	-30.024	7.854-04	7.762	1.017+12	-30.018	7.816-04	7.768
.5000	2.0000	5.996+14	8.891+11	-29.872	7.414-04	7.825	8.849+11	-29.867	7.379-04	7.830
.5200	1.9231	5.765+14	7.770+11	-29.726	7.008-04	7.886	7.731+11	-29.721	6.973-04	7.891
.5400	1.8519	5.552+14	6.822+11	-29.585	6.636-04	7.945	6.785+11	-29.579	6.600-04	7.951
.5600	1.7857	5.353+14	6.014+11	-29.448	6.291-04	8.003	5.980+11	-29.442	6.255-04	8.009
.5800	1.7241	5.169+14	5.323+11	-29.315	5.973-04	8.060	5.292+11	-29.309	5.938-04	8.066
.6050	1.6529	4.955+14	4.594+11	-29.155	5.609-04	8.128	4.566+11	-29.149	5.575-04	8.134
.6350	1.5748	4.721+14	3.877+11	-28.971	5.215-04	8.207	3.853+11	-28.964	5.182-04	8.214
.6650	1.5038	4.508+14	3.296+11	-28.795	4.862-04	8.283	3.274+11	-28.788	4.829-04	8.290
.6950	1.4388	4.314+14	2.821+11	-28.626	4.545-04	8.356	2.802+11	-28.619	4.515-04	8.363
.7250	1.3793	4.135+14	2.428+11	-28.463	4.257-04	8.427	2.411+11	-28.455	4.227-04	8.435
.7550	1.3245	3.971+14	2.102+11	-28.307	3.997-04	8.496	2.087+11	-28.299	3.968-04	8.504
.7850	1.2739	3.819+14	1.831+11	-28.157	3.764-04	8.561	1.817+11	-28.148	3.735-04	8.569
.8100	1.2346	3.701+14	1.636+11	-28.034	3.580-04	8.615	1.624+11	-28.026	3.554-04	8.623
.8350	1.1976	3.590+14	1.568+11	-27.988	3.647-04	8.595	1.561+11	-27.984	3.630-04	8.600
.9000	1.1111	3.331+14	1.190+11	-27.689	3.215-04	8.732	1.184+11	-27.683	3.199-04	8.737
1.0000	1.0000	2.998+14	8.059+10	-27.266	2.688-04	8.926	8.015+10	-27.260	2.674-04	8.932
1.2000	.8333	2.498+14	4.083+10	-26.527	1.961-04	9.269	4.058+10	-26.521	1.949-04	9.275
1.8000	.5556	1.666+14	8.926+09	-24.877	9.647-05	10.039	8.873+09	-24.870	9.589-05	10.046
2.7000	.3704	1.110+14	1.878+09	-23.184	4.567-05	10.851	1.867+09	-23.178	4.540-05	10.857
4.0000	.2500	7.495+13	4.057+08	-21.521	2.165-05	11.661	4.032+08	-21.514	2.152-05	11.668
5.0000	.2000	5.996+13	1.689+08	-20.569	1.408-05	12.128	1.678+08	-20.562	1.399-05	12.135
6.5000	.1538	4.612+13	5.993+07	-19.444	8.446-06	12.683	5.953+07	-19.437	8.390-06	12.691





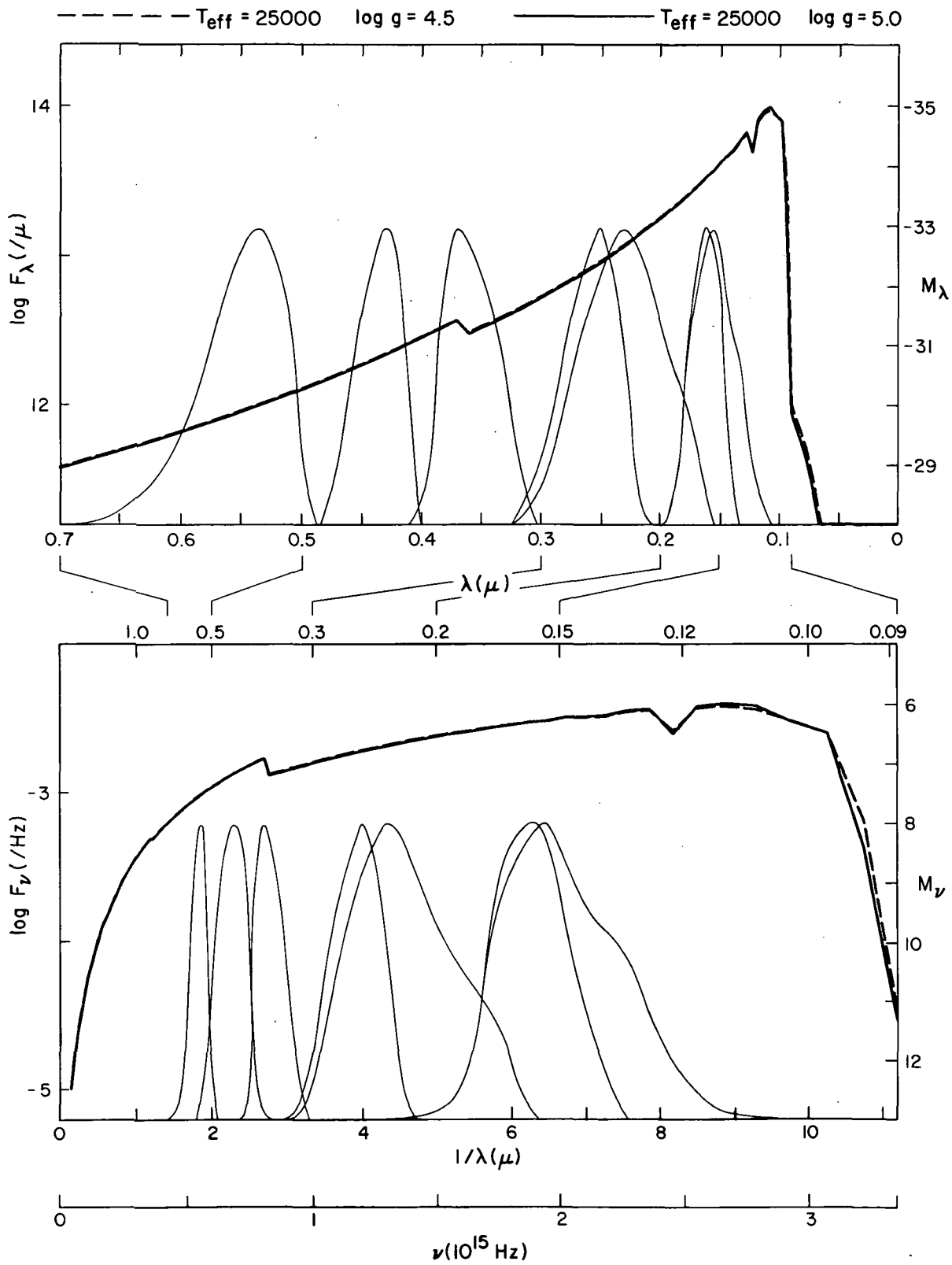
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TEFF = 25000

LOG G = 4.0

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.0232	43.1034	1.292+16	6.095+01	-4.462	1.094-16	39.902	3.939+01	-3.988	7.072-17	40.376
.0243	41.1523	1.234+16	3.008+02	-6.196	5.925-16	38.068	1.973+02	-5.738	3.886-16	38.526
.0255	39.2157	1.176+16	1.333+03	-7.812	2.891-15	36.347	8.966+02	-7.381	1.945-15	36.778
.0265	37.7358	1.131+16	4.638+03	-9.166	1.086-14	34.910	3.050+03	-8.711	7.144-15	35.365
.0277	36.1011	1.082+16	1.635+04	-10.534	4.185-14	33.446	1.093+04	-10.097	2.797-14	33.883
.0292	34.2466	1.027+16	6.814+04	-12.084	1.938-13	31.782	4.627+04	-11.663	1.316-13	32.202
.0308	32.4675	9.734+15	2.547+05	-13.515	8.060-13	30.234	1.769+05	-13.119	5.598-13	30.630
.0326	30.6748	9.196+15	1.036+06	-15.038	3.673-12	28.588	7.235+05	-14.649	2.565-12	28.977
.0344	29.0698	8.715+15	3.503+06	-16.361	1.383-11	27.148	2.474+06	-15.983	9.766-12	27.526
.0361	27.7008	8.305+15	1.748+07	-18.106	7.599-11	25.298	9.890+06	-17.488	4.299-11	25.917
.0380	26.3158	7.889+15	5.121+07	-19.273	2.467-10	24.020	2.810+07	-18.622	1.353-10	24.671
.0400	25.0000	7.495+15	1.421+08	-20.381	7.584-10	22.800	7.520+07	-19.691	4.013-10	23.491
.0420	23.8095	7.138+15	3.355+08	-21.314	1.974-09	21.762	1.796+08	-20.636	1.057-09	22.440
.0442	22.6244	6.783+15	7.317+08	-22.161	4.768-09	20.804	4.048+08	-21.518	2.638-09	21.447
.0467	21.4133	6.420+15	1.605+09	-23.014	1.168-08	19.832	9.203+08	-22.410	6.695-09	20.436
.0492	20.3252	6.093+15	3.251+09	-23.780	2.625-08	18.952	1.914+09	-23.205	1.545-08	19.527
.0515	19.4175	5.821+15	4.988+09	-26.745	4.413-07	15.888	3.135+10	-26.241	2.774-07	16.392
.0540	18.5185	5.552+15	7.580+10	-27.199	7.373-07	15.331	4.965+10	-26.740	4.829-07	15.790
.0565	17.6991	5.306+15	1.166+11	-27.667	1.242-06	14.765	7.731+10	-27.221	8.232-07	15.211
.0587	17.0358	5.107+15	1.501+11	-27.941	1.725-06	14.408	1.013+11	-27.514	1.164-06	14.835
.0612	16.3399	4.899+15	2.134+11	-28.323	2.666-06	13.935	1.469+11	-27.918	1.835-06	14.341
.0634	15.7729	4.729+15	2.637+11	-28.553	3.536-06	13.629	1.850+11	-28.168	2.480-06	14.014
.0671	14.9031	4.468+15	3.665+11	-28.910	5.504-06	13.148	2.642+11	-28.555	3.968-06	13.504
.0705	14.1844	4.252+15	4.983+11	-29.244	8.261-06	12.707	3.662+11	-28.909	6.071-06	13.042
.0736	13.5870	4.073+15	6.197+11	-29.480	1.120-05	12.377	4.613+11	-29.160	8.335-06	12.698
.0770	12.9870	3.893+15	8.252+11	-29.791	1.632-05	11.968	6.172+11	-29.476	1.221-05	12.284
.0810	12.3457	3.701+15	1.020+12	-30.022	2.232-05	11.628	7.777+11	-29.727	1.702-05	11.923
.0850	11.7647	3.527+15	1.197+12	-30.195	2.885-05	11.350	9.339+11	-29.926	2.251-05	11.619
.0890	11.2360	3.368+15	1.526+12	-30.459	4.032-05	10.986	1.192+12	-30.191	3.149-05	11.254
.0930	10.7527	3.224+15	4.210+13	-34.061	1.215-03	7.289	3.220+13	-33.770	9.290-04	7.580
.0975	10.2564	3.075+15	6.840+13	-34.588	2.169-03	6.659	7.558+13	-34.696	2.397-03	6.551
.1025	9.7561	2.925+15	8.070+13	-34.767	2.828-03	6.371	8.541+13	-34.829	2.993-03	6.310
.1075	9.3023	2.789+15	7.932+13	-34.748	3.058-03	6.287	8.727+13	-34.852	3.364-03	6.183
.1125	8.8889	2.665+15	7.979+13	-34.755	3.368-03	6.181	8.539+13	-34.829	3.605-03	6.108
.1175	8.5106	2.551+15	7.240+13	-34.649	3.334-03	6.193	7.659+13	-34.710	3.527-03	6.131
.1220	8.1967	2.457+15	5.590+13	-34.369	2.775-03	6.392	5.461+13	-34.343	2.711-03	6.417
.1270	7.8740	2.361+15	6.295+13	-34.497	3.387-03	6.176	6.487+13	-34.530	3.490-03	6.143
.1325	7.5472	2.263+15	5.717+13	-34.393	3.348-03	6.188	5.830+13	-34.414	3.414-03	6.167
.1375	7.2727	2.180+15	4.913+13	-34.228	3.098-03	6.272	5.031+13	-34.254	3.173-03	6.246
.1422	7.0323	2.108+15	4.611+13	-34.159	3.110-03	6.268	4.671+13	-34.174	3.151-03	6.254
.1482	6.7476	2.023+15	4.379+13	-34.103	3.208-03	6.234	4.357+13	-34.098	3.192-03	6.240
.1547	6.4641	1.938+15	3.754+13	-33.936	2.997-03	6.308	3.753+13	-33.936	2.996-03	6.309
.1598	6.2578	1.876+15	3.593+13	-33.889	3.060-03	6.286	3.524+13	-33.868	3.002-03	6.307
.1649	6.0643	1.818+15	3.299+13	-33.796	2.992-03	6.310	3.215+13	-33.768	2.916-03	6.338
.1730	5.7803	1.733+15	2.898+13	-33.655	2.893-03	6.347	2.812+13	-33.623	2.807-03	6.379
.1830	5.4645	1.638+15	2.469+13	-33.481	2.758-03	6.398	2.379+13	-33.441	2.658-03	6.439
.1930	5.1813	1.553+15	2.136+13	-33.324	2.654-03	6.440	2.051+13	-33.280	2.548-03	6.484
.2015	4.9628	1.488+15	1.893+13	-33.193	2.564-03	6.478	1.811+13	-33.145	2.453-03	6.526
.2100	4.7619	1.428+15	1.680+13	-33.063	2.471-03	6.518	1.603+13	-33.012	2.358-03	6.569
.2200	4.5455	1.363+15	1.470+13	-32.918	2.373-03	6.562	1.399+13	-32.865	2.259-03	6.615
.2300	4.3478	1.303+15	1.288+13	-32.775	2.273-03	6.609	1.224+13	-32.719	2.160-03	6.664
.2400	4.1667	1.249+15	1.134+13	-32.637	2.179-03	6.654	1.075+13	-32.579	2.065-03	6.712
.2482	4.0290	1.208+15	1.019+13	-32.520	2.094-03	6.698	9.704+12	-32.467	1.994-03	6.751
.2557	3.9108	1.172+15	9.388+12	-32.431	2.047-03	6.722	8.906+12	-32.374	1.942-03	6.779
.2660	3.7594	1.127+15	8.337+12	-32.303	1.968-03	6.765	7.913+12	-32.246	1.868-03	6.822
.2770	3.6101	1.082+15	7.358+12	-32.167	1.883-03	6.813	6.979+12	-32.109	1.786-03	6.870
.2870	3.4843	1.045+15	6.608+12	-32.050	1.816-03	6.852	6.274+12	-31.994	1.724-03	6.909
.2970	3.3670	1.009+15	5.944+12	-31.935	1.749-03	6.893	5.646+12	-31.879	1.661-03	6.949
.3070	3.2573	9.765+14	5.363+12	-31.824	1.686-03	6.933	5.096+12	-31.768	1.602-03	6.988
.3170	3.1546	9.457+14	4.860+12	-31.717	1.629-03	6.970	4.620+12	-31.662	1.549-03	7.025
.3270	3.0581	9.168+14	4.408+12	-31.611	1.572-03	7.009	4.192+12	-31.556	1.495-03	7.063
.3370	2.9674	8.896+14	4.008+12	-31.507	1.518-03	7.047	3.814+12	-31.453	1.445-03	7.100
.3480	2.8736	8.615+14	3.671+12	-31.412	1.483-03	7.072	3.499+12	-31.360	1.413-03	7.124
.3600	2.7778	8.328+14	3.294+12	-31.294	1.424-03	7.116	3.140+12	-31.242	1.357-03	7.168
.3700	2.7027	8.102+14	3.819+12	-31.455	1.744-03	6.896	3.772+12	-31.441	1.722-03	6.910
.3800	2.6316	7.889+14	3.486+12	-31.356	1.679-03	6.937	3.439+12	-31.341	1.656-03	6.952
.3900	2.5641	7.687+14	3.189+12	-31.259	1.618-03	6.978	3.142+12	-31.243	1.594-03	6.994
.4000	2.5000	7.495+14	2.922+12	-31.164	1.559-03	7.018	2.877+12	-31.147	1.535-03	7.034
.4200	2.3810	7.138+14	2.468+12	-30.981	1.452-03	7.095	2.425+12	-30.962	1.427-03	7.114
.4400	2.2727	6.813+14	2.098+12	-30.805	1.355-03	7.170	2.059+12	-30.784	1.330-03	7.191
.4600	2.1739	6.517+14	1.795+12	-30.635	1.267-03	7.243	1.760+12	-30.614	1.242-03	7.264
.4800	2.0833	6.246+14	1.545+12	-30.472	1.187-03	7.314	1.514+12	-30.450	1.164-03	7.336
.5000	2.0000	5.996+14	1.337+12	-30.315	1.115-03	7.382	1.309+12	-30.292	1.092-03	7.405
.5200	1.9231	5.765+14	1.163+12	-30.164	1.049-03	7.448	1.138+12	-30.140	1.026-03	7.472
.5400	1.8511	5.552+14	1.017+12	-30.018	9.892-04	7.512	9.938+11	-29.993	9.666-04	7.537
.5800	1.7241	5.169+14	7.867+11	-29.740	8.828-04	7.635	7.684+11	-29.714	8.622-04	7.661
.6350	1.5748	4.721+14	5.670+11	-29.384	7.626-04	7.794	5.534+11	-29.358	7.443-04	7.821
.6650	1.5038	4.508+14	4.796+11	-29.202	7.075-04	7.876	4.679+11	-29.175	6.902-04	7.903
.6950	1.4388	4.314+14	4.082+11	-29.027	6.577-04	7.955	3.982+11	-29.000	6.416-04	7.982
.7550	1.3245	3.971+14	3.014+11	-28.698	5.731-04	8.104	2.939+11	-28.670	5.588-04	8.132
.8100	1.2346	3.701+14	2.329+11	-28.418	5.097-04	8.232	2.271+11	-28.391	4.970-04	8.259
.8350	1.1976	3.590+14	2.169+11	-28.341	5.044-04	8.243	2.126+11	-28.319	4.944-04	8.265
.9000	1.1111	3.331+14	1.638+11	-28.036	4.426-04	8.385	1.604+11	-28.013	4.334-04	8.408
1.0000	1.0000	2.998+14	1.101+11	-27.604	3.673-04	8.588	1.078+11	-27.582	3.596-04	8.611
1.2000	.8333	2.498+14	5.511+10	-26.853	2.647-04	8.943	5.393+10	-26.830	2.590-04	8.967
1.8000	.5556	1.666+14	1.171+10	-25.171	1.266-04	9.744	1.147+10	-25.149	1.240-04	9.767
2.7000	.3704	1.110+14	2.415+09	-23.457	5.873-05	10.578	2.367+09	-23.435	5.756-05	10.600
4.0000	.2500	7.495+13	5.131+08	-21.776	2.738-05	11.406	5.031+08	-21.754	2.685-05	11.428
5.0000	.2000	5.996+13	2.119+08	-20.815	1.767-05	11.882	2.078+08	-20.794	1.733-05	11.903
6.5000	.1538	4.612+13	7.459+07	-19.682	1.051-05	12.446	7.314+07	-19.660	1.031-05	12.467



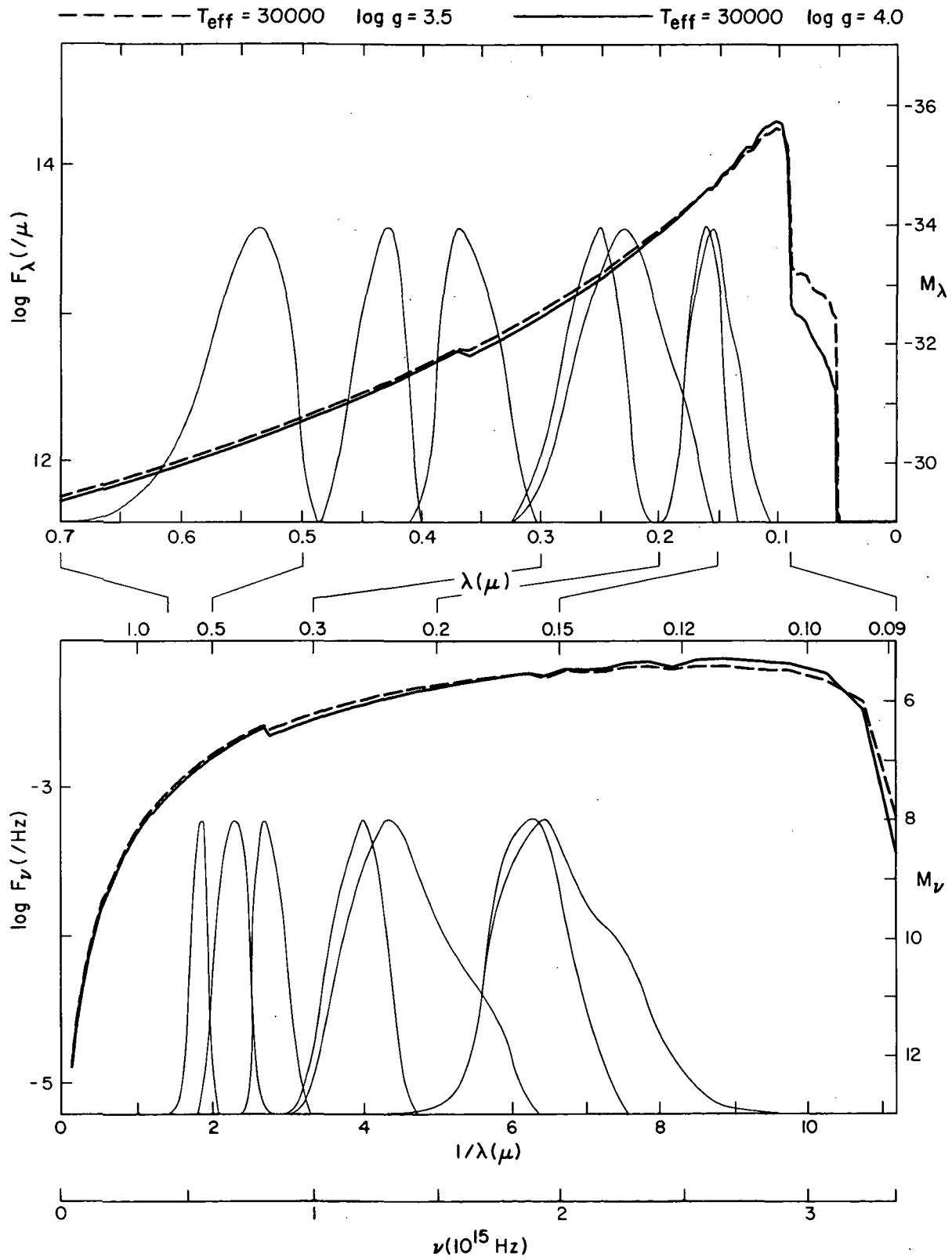
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TEFF = 25000

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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.6232	43.1034	1.292+16	2.852+01	-3.638	5.120-17	40.727	1.745+01	-3.104	3.133-17	41.260
.6243	41.1523	1.234+16	1.440+02	-5.396	2.836-16	38.868	8.916+01	-4.875	1.756-16	39.389
.6255	39.2157	1.176+16	6.677+02	-7.061	1.448-15	37.098	4.236+02	-6.567	9.188-16	37.592
.6265	37.7358	1.131+16	2.236+03	-8.374	5.238-15	35.702	1.414+03	-7.876	3.312-15	36.200
.6277	36.1011	1.082+16	8.110+03	-9.773	2.076-14	34.207	5.228+03	-9.296	1.338-14	34.684
.6292	34.2466	1.027+16	3.474+04	-11.352	9.880-14	32.513	2.282+04	-10.896	6.490-14	32.969
.6308	32.4675	9.734+15	1.353+05	-12.828	4.281-13	30.921	9.161+04	-12.405	2.899-13	31.344
.6326	30.6748	9.196+15	5.533+05	-14.357	1.961-12	29.269	3.780+05	-13.944	1.340-12	29.682
.6344	29.0698	8.715+15	1.901+06	-15.697	7.504-12	27.812	1.317+06	-15.299	5.199-12	28.210
.6361	27.7008	8.305+15	6.399+06	-17.015	2.782-11	26.389	4.041+06	-16.516	1.757-11	26.888
.6380	26.3158	7.889+15	1.804+07	-18.141	8.689-11	25.153	1.155+07	-17.656	5.563-11	25.637
.6400	25.0000	7.495+15	4.793+07	-19.202	2.558-10	23.980	3.109+07	-18.732	1.659-10	24.450
.6420	23.8095	7.138+15	1.150+08	-20.152	6.767-10	22.924	7.546+07	-19.694	4.440-10	23.382
.6442	22.6244	6.783+15	2.653+08	-21.059	1.729-09	21.906	1.789+08	-20.632	1.166-09	22.333
.6467	21.4133	6.420+15	6.174+08	-21.976	4.491-09	20.869	4.282+08	-21.579	3.115-09	21.266
.6492	20.3252	6.093+15	1.309+09	-22.792	1.057-08	19.940	9.295+08	-22.421	7.505-09	20.312
.6515	19.4175	5.821+15	2.381+10	-23.542	2.106-07	18.691	1.946+10	-23.723	1.722-07	16.910
.6540	18.5185	5.552+15	3.869+10	-24.249	3.763-07	16.061	3.220+10	-26.270	3.132-07	16.260
.6565	17.6991	5.306+15	6.042+10	-24.953	6.434-07	15.479	5.017+10	-26.751	5.342-07	15.681
.6587	17.0358	5.107+15	7.968+10	-25.723	9.158-07	15.095	6.612+10	-27.051	7.600-07	15.298
.6612	16.3399	4.899+15	1.168+11	-27.669	1.459-06	14.590	9.732+10	-27.471	1.216-06	14.788
.6634	15.7729	4.729+15	1.486+11	-27.930	1.992-06	14.252	1.245+11	-27.738	1.669-06	14.444
.6671	14.9031	4.468+15	2.154+11	-28.333	3.235-06	13.725	1.820+11	-28.150	2.733-06	13.908
.6705	14.1844	4.252+15	3.013+11	-28.697	4.995-06	13.254	2.555+11	-28.518	4.236-06	13.433
.6736	13.5870	4.073+15	3.830+11	-28.958	6.920-06	12.900	3.269+11	-28.786	5.907-06	13.072
.6770	12.9870	3.893+15	5.123+11	-29.274	1.013-05	12.486	4.364+11	-29.100	8.631-06	12.660
.6810	12.3457	3.701+15	6.535+11	-29.538	1.430-05	12.112	5.613+11	-29.373	1.228-05	12.277
.6850	11.7647	3.527+15	7.970+11	-29.754	1.921-05	11.791	6.925+11	-29.601	1.669-05	11.944
.6890	11.2360	3.368+15	1.015+12	-30.016	2.682-05	11.429	8.793+11	-29.860	2.323-05	11.585
.6930	10.7527	3.224+15	2.276+13	-33.393	6.566-04	7.957	1.501+13	-32.941	4.330-04	8.409
.6975	10.2564	3.075+15	7.959+13	-34.752	2.524-03	6.495	7.948+13	-34.751	2.520-03	6.496
.1025	9.7561	2.925+15	8.750+13	-34.855	3.066-03	6.283	8.676+13	-34.846	3.041-03	6.293
.1075	9.3023	2.789+15	9.408+13	-34.934	3.627-03	6.101	9.955+13	-34.995	3.837-03	6.040
.1125	8.8889	2.665+15	8.998+13	-34.885	3.799-03	6.051	9.378+13	-34.930	3.959-03	6.006
.1175	8.5106	2.551+15	7.979+13	-34.755	3.675-03	6.087	8.222+13	-34.787	3.786-03	6.054
.1220	8.1967	2.457+15	5.242+13	-34.299	2.603-03	6.462	4.954+13	-34.237	2.460-03	6.523
.1270	7.8740	2.361+15	6.627+13	-34.553	3.565-03	6.120	6.744+13	-34.572	3.628-03	6.101
.1325	7.5472	2.263+15	5.914+13	-34.430	3.463-03	6.151	5.997+13	-34.445	3.512-03	6.136
.1375	7.2727	2.180+15	5.124+13	-34.274	3.231-03	6.227	5.214+13	-34.293	3.288-03	6.208
.1422	7.0323	2.108+15	4.721+13	-34.185	3.184-03	6.242	4.781+13	-34.199	3.225-03	6.229
.1482	6.7476	2.023+15	4.345+13	-34.095	3.183-03	6.243	4.355+13	-34.097	3.191-03	6.240
.1547	6.4641	1.938+15	3.748+13	-33.934	2.992-03	6.310	3.758+13	-33.937	3.000-03	6.307
.1598	6.2578	1.876+15	3.481+13	-33.854	2.965-03	6.320	3.469+13	-33.851	2.955-03	6.324
.1649	6.0643	1.818+15	3.162+13	-33.750	2.868-03	6.356	3.140+13	-33.742	2.848-03	6.364
.1730	5.7803	1.733+15	2.760+13	-33.602	2.755-03	6.400	2.739+13	-33.594	2.734-03	6.408
.1830	5.4645	1.638+15	2.326+13	-33.417	2.598-03	6.463	2.302+13	-33.405	2.572-03	6.475
.1930	5.1813	1.553+15	2.002+13	-33.254	2.487-03	6.511	1.979+13	-33.241	2.459-03	6.523
.2015	4.9628	1.488+15	1.764+13	-33.116	2.389-03	6.554	1.741+13	-33.102	2.358-03	6.569
.2100	4.7619	1.428+15	1.559+13	-32.982	2.293-03	6.599	1.537+13	-32.967	2.261-03	6.614
.2200	4.5455	1.363+15	1.359+13	-32.833	2.194-03	6.647	1.338+13	-32.816	2.160-03	6.664
.2300	4.3478	1.303+15	1.187+13	-32.686	2.095-03	6.697	1.168+13	-32.669	2.061-03	6.715
.2400	4.1667	1.249+15	1.042+13	-32.545	2.002-03	6.746	1.025+13	-32.527	1.969-03	6.764
.2482	4.0290	1.208+15	9.427+12	-32.436	1.937-03	6.782	9.283+12	-32.419	1.908-03	6.799
.2557	3.9108	1.172+15	8.634+12	-32.341	1.883-03	6.813	8.491+12	-32.322	1.852-03	6.831
.2660	3.7594	1.127+15	7.675+12	-32.213	1.811-03	6.855	7.549+12	-32.195	1.782-03	6.873
.2770	3.6101	1.082+15	6.767+12	-32.076	1.732-03	6.904	6.653+12	-32.058	1.703-03	6.922
.2870	3.4843	1.045+15	6.089+12	-31.961	1.673-03	6.941	5.989+12	-31.943	1.645-03	6.959
.2970	3.3670	1.009+15	5.480+12	-31.847	1.612-03	6.981	5.391+12	-31.829	1.586-03	6.999
.3070	3.2573	9.765+14	4.948+12	-31.736	1.556-03	7.020	4.868+12	-31.718	1.530-03	7.038
.3170	3.1546	9.457+14	4.487+12	-31.630	1.504-03	7.057	4.415+12	-31.612	1.480-03	7.074
.3270	3.0581	9.168+14	4.073+12	-31.525	1.453-03	7.095	4.008+12	-31.507	1.430-03	7.112
.3370	2.9674	8.896+14	3.706+12	-31.422	1.404-03	7.132	3.648+12	-31.405	1.382-03	7.149
.3480	2.8736	8.615+14	3.402+12	-31.329	1.374-03	7.155	3.349+12	-31.312	1.353-03	7.172
.3600	2.7778	8.328+14	3.055+12	-31.213	1.321-03	7.198	3.007+12	-31.195	1.300-03	7.215
.3700	2.7027	8.102+14	3.742+12	-31.433	1.709-03	6.918	3.728+12	-31.429	1.702-03	6.922
.3800	2.6316	7.889+14	3.409+12	-31.332	1.642-03	6.962	3.395+12	-31.327	1.635-03	6.966
.3900	2.5641	7.687+14	3.113+12	-31.233	1.579-03	7.004	3.099+12	-31.228	1.572-03	7.009
.4000	2.5000	7.495+14	2.849+12	-31.137	1.521-03	7.045	2.835+12	-31.131	1.513-03	7.050
.4200	2.3810	7.138+14	2.400+12	-30.951	1.412-03	7.125	2.386+12	-30.944	1.404-03	7.132
.4400	2.2727	6.813+14	2.036+12	-30.772	1.315-03	7.203	2.024+12	-30.766	1.307-03	7.209
.4600	2.1739	6.517+14	1.739+12	-30.601	1.227-03	7.278	1.728+12	-30.594	1.220-03	7.284
.4800	2.0833	6.246+14	1.495+12	-30.437	1.149-03	7.349	1.485+12	-30.429	1.141-03	7.357
.5000	2.0000	5.996+14	1.292+12	-30.278	1.077-03	7.419	1.283+12	-30.271	1.070-03	7.427
.5200	1.9231	5.765+14	1.123+12	-30.126	1.013-03	7.486	1.115+12	-30.118	1.006-03	7.494
.5400	1.8519	5.552+14	9.806+11	-29.979	9.538-04	7.551	9.733+11	-29.971	9.467-04	7.559
.5800	1.7241	5.169+14	7.578+11	-29.699	8.503-04	7.676	7.520+11	-29.691	8.438-04	7.684
.6350	1.5748	4.721+14	5.456+11	-29.342	7.338-04	7.836	5.413+11	-29.334	7.281-04	7.845
.6650	1.5038	4.508+14								



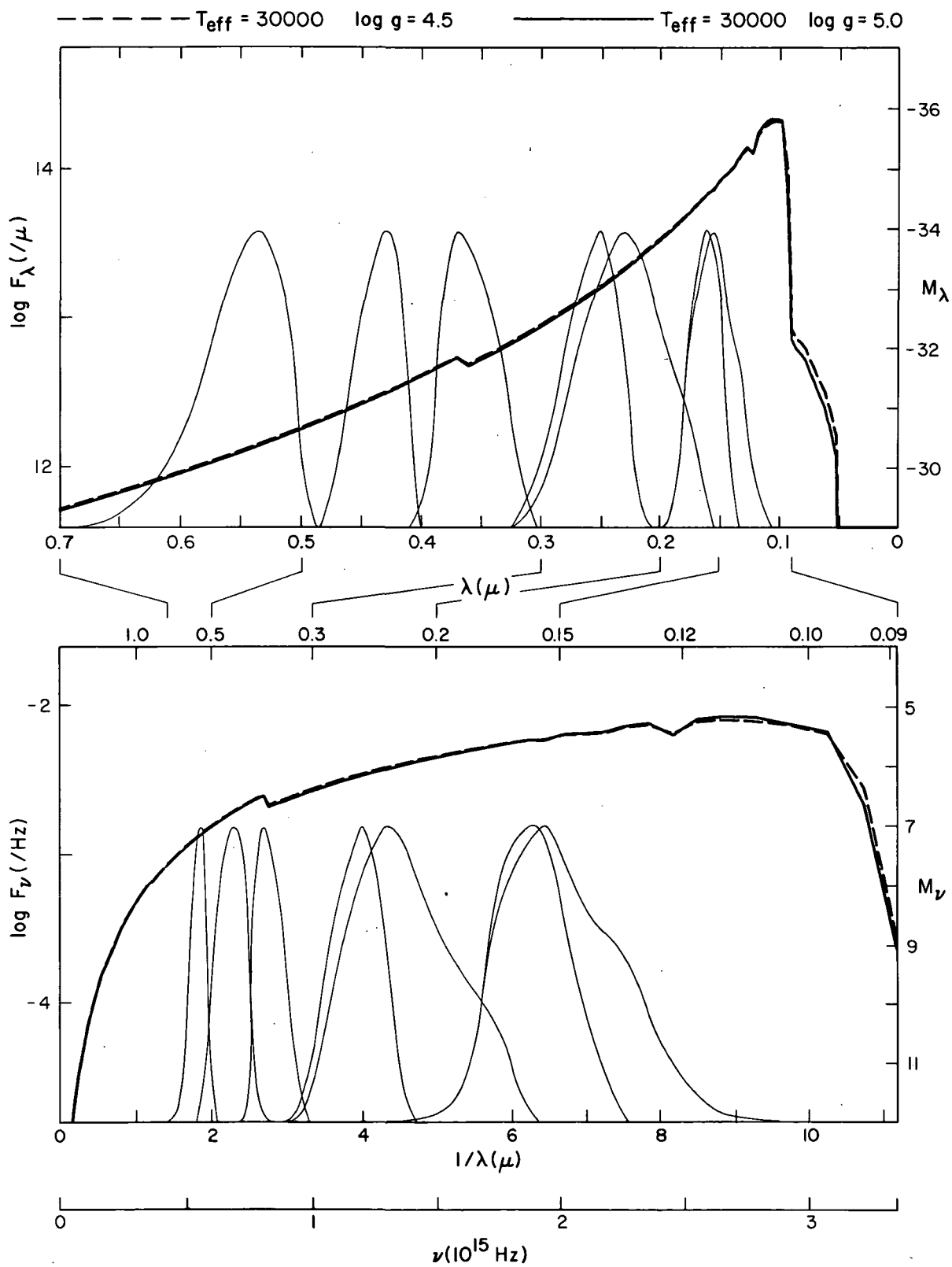
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LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	5.948+05	-14.436	1.068-12	49.929	1.208+05	-12.705	2.169-13	31.659
.0243	41.1523	1.234+16	2.123+06	-15.817	4.182-12	48.447	4.499+05	-14.133	8.862-13	30.131
.0255	39.2157	1.176+16	6.403+06	-17.016	1.389-11	47.143	1.444+06	-15.399	3.132-12	28.760
.0265	37.7358	1.131+16	3.253+07	-18.781	7.620-11	45.295	4.967+06	-16.740	1.163-11	27.336
.0277	36.1011	1.082+16	8.049+07	-19.764	2.060-10	44.215	1.328+07	-17.808	3.399-11	26.172
.0292	34.2466	1.027+16	2.297+08	-20.903	6.533-10	42.962	4.099+07	-19.032	1.166-10	24.833
.0308	32.4675	9.734+15	7.429+08	-22.177	2.351-09	41.572	1.162+08	-20.163	3.677-10	23.586
.0326	30.6748	9.196+15	2.364+09	-23.434	8.380-09	40.192	3.624+08	-21.398	1.285-09	22.228
.0344	29.0698	8.715+15	5.439+09	-24.339	2.147+08	39.170	9.122+08	-22.400	3.601-09	21.109
.0361	27.7008	8.305+15	1.532+10	-25.463	6.660+08	37.941	2.953+09	-23.676	1.284+08	19.729
.0380	26.3158	7.889+15	3.202+10	-26.264	1.542-07	37.030	6.840+09	-24.588	3.295-08	18.705
.0400	25.0000	7.495+15	6.857+10	-27.090	3.660-07	36.091	1.574+10	-25.493	8.400-08	17.689
.0420	23.8095	7.138+15	1.199+11	-27.697	7.055-07	35.379	2.972+10	-26.183	1.749+07	16.893
.0442	22.6244	6.783+15	1.938+11	-28.218	1.263+06	34.747	5.193+10	-26.789	3.384+07	16.176
.0467	21.4133	6.420+15	3.064+11	-28.716	2.229+06	34.130	8.979+10	-27.383	6.532+07	15.462
.0492	20.3252	6.093+15	4.811+11	-29.206	3.885+06	33.527	1.497+11	-27.938	1.209+06	14.794
.0515	19.4175	5.821+15	9.567+12	-32.452	8.464+05	32.918	3.034+12	-31.205	2.684+05	11.428
.0540	18.5185	5.552+15	1.013+13	-32.514	9.853+05	32.311	3.413+12	-31.333	3.320+05	11.197
.0565	17.6991	5.306+15	1.208+13	-32.705	1.286+04	31.727	4.168+12	-31.550	4.438+05	10.882
.0587	17.0358	5.107+15	1.227+13	-32.722	1.410+04	31.170	4.473+12	-31.626	5.141+05	10.722
.0612	16.3399	4.899+15	1.338+13	-32.816	1.672+04	30.642	5.143+12	-31.778	6.425+05	10.480
.0634	15.7729	4.729+15	1.373+13	-32.844	1.841+04	30.137	5.496+12	-31.850	7.369+05	10.331
.0671	14.9031	4.468+15	1.414+13	-32.876	2.124+04	29.642	6.097+12	-31.963	9.157+05	10.096
.0705	14.1844	4.252+15	1.474+13	-32.921	2.444+04	29.160	6.841+12	-32.088	1.134+04	9.863
.0736	13.5870	4.073+15	1.624+13	-33.026	2.934+04	28.691	7.632+12	-32.207	1.379+04	9.651
.0770	12.9870	3.893+15	1.835+13	-33.159	3.629+04	28.244	8.901+12	-32.374	1.760+04	9.386
.0810	12.3457	3.701+15	1.895+13	-33.194	4.147+04	27.811	9.611+12	-32.457	2.103+04	9.193
.0850	11.7647	3.527+15	1.865+13	-33.177	4.495+04	27.396	9.940+12	-32.493	2.396+04	9.051
.0890	11.2360	3.368+15	2.107+13	-33.309	5.567+04	26.991	1.144+13	-32.646	3.023+04	8.799
.0930	10.7527	3.224+15	1.356+14	-33.331	3.912+03	26.601	1.196+14	-32.694	3.450+03	8.555
.0975	10.2564	3.075+15	1.694+14	-33.572	5.372+03	26.225	1.906+14	-33.700	6.044+03	8.307
.1025	9.7561	2.925+15	1.800+14	-33.638	6.308+03	25.860	2.005+14	-33.755	7.027+03	8.063
.1075	9.3023	2.789+15	1.655+14	-33.547	6.380+03	25.511	1.883+14	-33.687	7.258+03	7.829
.1125	8.8889	2.665+15	1.587+14	-33.501	6.700+03	25.170	1.786+14	-33.630	7.540+03	7.600
.1175	8.5106	2.551+15	1.446+14	-33.400	6.659+03	24.837	1.598+14	-33.509	7.359+03	7.376
.1220	8.1967	2.457+15	1.278+14	-33.266	6.345+03	24.511	1.325+14	-33.306	6.578+03	7.155
.1270	7.8740	2.361+15	1.236+14	-33.230	6.650+03	24.191	1.334+14	-33.313	7.177+03	6.930
.1325	7.5472	2.263+15	1.120+14	-33.123	6.559+03	23.876	1.191+14	-33.190	6.975+03	6.705
.1375	7.2727	2.180+15	9.727+13	-34.970	6.134+03	23.566	1.020+14	-33.022	6.433+03	6.479
.1422	7.0323	2.108+15	9.046+13	-34.891	6.101+03	23.260	9.398+13	-34.933	6.339+03	6.254
.1482	6.7476	2.023+15	8.502+13	-34.824	6.229+03	22.959	8.740+13	-34.854	6.403+03	6.029
.1547	6.4641	1.938+15	6.945+13	-34.604	5.544+03	22.660	7.224+13	-34.647	5.767+03	5.798
.1598	6.2578	1.876+15	6.979+13	-34.609	5.945+03	22.364	7.026+13	-34.617	5.985+03	5.567
.1649	6.0643	1.818+15	6.412+13	-34.517	5.816+03	22.069	6.403+13	-34.516	5.808+03	5.340
.1730	5.7803	1.733+15	5.620+13	-34.374	5.611+03	21.774	5.548+13	-34.360	5.539+03	5.115
.1830	5.4645	1.638+15	4.798+13	-34.203	5.360+03	21.489	4.675+13	-34.174	5.222+03	4.880
.1930	5.1813	1.553+15	4.117+13	-34.036	5.115+03	21.204	3.971+13	-33.997	4.934+03	4.645
.2015	4.9628	1.488+15	3.628+13	-33.899	4.914+03	20.919	3.472+13	-33.851	4.702+03	4.410
.2100	4.7619	1.428+15	3.253+13	-33.781	4.785+03	20.634	3.074+13	-33.719	4.522+03	4.175
.2200	4.5455	1.363+15	2.823+13	-33.627	4.558+03	20.349	2.648+13	-33.557	4.275+03	3.940
.2300	4.3478	1.303+15	2.459+13	-33.477	4.339+03	20.064	2.294+13	-33.401	4.048+03	3.705
.2400	4.1667	1.249+15	2.152+13	-33.332	4.135+03	19.779	1.997+13	-33.251	3.837+03	3.470
.2482	4.0290	1.208+15	1.913+13	-33.204	3.931+03	19.494	1.775+13	-33.123	3.647+03	3.235
.2557	3.9108	1.172+15	1.759+13	-33.113	3.836+03	19.209	1.623+13	-33.026	3.540+03	3.000
.2660	3.7594	1.127+15	1.549+13	-32.975	3.656+03	18.924	1.425+13	-32.885	3.363+03	2.765
.2770	3.6101	1.082+15	1.358+13	-32.832	3.476+03	18.639	1.245+13	-32.738	3.186+03	2.530
.2870	3.4843	1.045+15	1.208+13	-32.705	3.319+03	18.354	1.106+13	-32.609	3.039+03	2.295
.2970	3.3670	1.009+15	1.079+13	-32.583	3.175+03	18.069	9.865+12	-32.485	2.903+03	2.060
.3070	3.2573	9.765+14	9.667+12	-32.463	3.039+03	17.784	8.825+12	-32.364	2.774+03	1.825
.3170	3.1546	9.457+14	8.691+12	-32.348	2.913+03	17.499	7.930+12	-32.248	2.658+03	1.590
.3270	3.0581	9.168+14	7.829+12	-32.234	2.792+03	17.214	7.137+12	-32.134	2.546+03	1.355
.3370	2.9674	8.896+14	7.071+12	-32.124	2.679+03	16.929	6.442+12	-32.023	2.440+03	1.120
.3480	2.8736	8.615+14	6.392+12	-32.014	2.582+03	16.644	5.839+12	-31.916	2.359+03	9.95
.3600	2.7778	8.328+14	5.692+12	-31.888	2.461+03	16.359	5.197+12	-31.789	2.247+03	8.705
.3700	2.7027	8.102+14	5.813+12	-31.911	2.655+03	16.074	5.639+12	-31.878	2.575+03	7.460
.3800	2.6316	7.889+14	5.297+12	-31.810	2.551+03	15.789	5.125+12	-31.774	2.469+03	6.215
.3900	2.5641	7.687+14	4.837+12	-31.711	2.454+03	15.504	4.669+12	-31.673	2.369+03	4.970
.4000	2.5000	7.495+14	4.425+12	-31.615	2.362+03	15.219	4.262+12	-31.574	2.275+03	3.725
.4200	2.3810	7.138+14	3.724+12	-31.428	2.191+03	14.634	3.574+12	-31.383	2.103+03	2.480
.4400	2.2727	6.813+14	3.156+12	-31.248	2.038+03	14.049	3.018+12	-31.199	1.949+03	1.235
.4600	2.1739	6.517+14	2.691+12	-31.075	1.899+03	13.464	2.567+12	-31.024	1.812+03	0.990
.4800	2.0833	6.246+14	2.309+12	-30.909	1.775+03	12.879	2.197+12	-30.855	1.688+03	0.745
.5000	2.0000	5.996+14	1.991+12	-30.748	1.660+03	12.294	1.891+12	-30.692	1.577+03	0.490
.5200	1.9231	5.765+14	1.727+12	-30.593	1.558+03	11.709	1.637+12	-30.535	1.477+03	0.235
.5400	1.8519	5.552+14	1.504+12	-30.443	1.463+03	11.124	1.424+12	-30.384	1.385+03	0.080
.5800	1.7241	5.169+14	1.157+12	-30.158	1.298+03	10.539	1.092+12	-30.096	1.225+03	0.005
.6350	1.5748	4.721+14	8.276+11	-29.795	1.113+03	9.954	7.793+11	-29.729	1.048+03	0.000
.6650	1.5038	4.508+14	6.971+11	-29.608	1.028+03	9.369	6.558+11	-29.542	9.674+04	7.536
.6950	1.4388	4.314+14	5.911+11	-29.429	9.524+04	7.553	5.556+11	-29.362	8.952+04	7.620
.7550	1.3245	3.971+14	4.333+11	-29.092	8.239+04	7.710	4.067+11	-29.023	7.733+04	7.779
.8100	1.2346	3.701+14	3.326+11	-28.805	7.279+04	7.845	3.120+11	-28.735	6.828+04	7.914
.8350	1.1976	3.590+14	3.037+11	-28.706	7.063+04	7.878	2.874+11	-28.646	6.684+04	7.937
.9000	1.1111	3.331+14	2.283+11	-28.396	6.168+04	8.025	2.157+11	-28.335	5.828+04	8.086
1.0000	1.0000	2.998+14	1.526+11	-27.959	5.090+04	8.233	1.439+11	-27.995	4.800+04	8.297
1.2000	.8333	2.498+14	7.558+10	-27.196	3.630+04	8.600	7.113+10	-27.130	3.417+04	8.666
1.8000	.5556	1.666+14	1.569+10	-25.489	1.696+04	9.427	1.475+10	-25.422	1.594+04	9.494
2.7000	.3704	1.110+14	3.183+09	-23.757	7.740+05	10.278	2.990+09	-23.689	7.271+05	10.346
4.0000	.2500	7.495+13	6.700+08	-22.065	3.576+05	11.117	6.286+08	-21.996	3.355+05	11.186
5.0000	.2000	5.996+13	2.757+08	-21.101	2.299+05	11.596	2.585+08	-21.031	2.156+05	11.666
6.5000	.1538	4.612+13	9.680+07	-19.965	1.364+05	12.163	9.075+07	-19.895	1.279+05	12.233



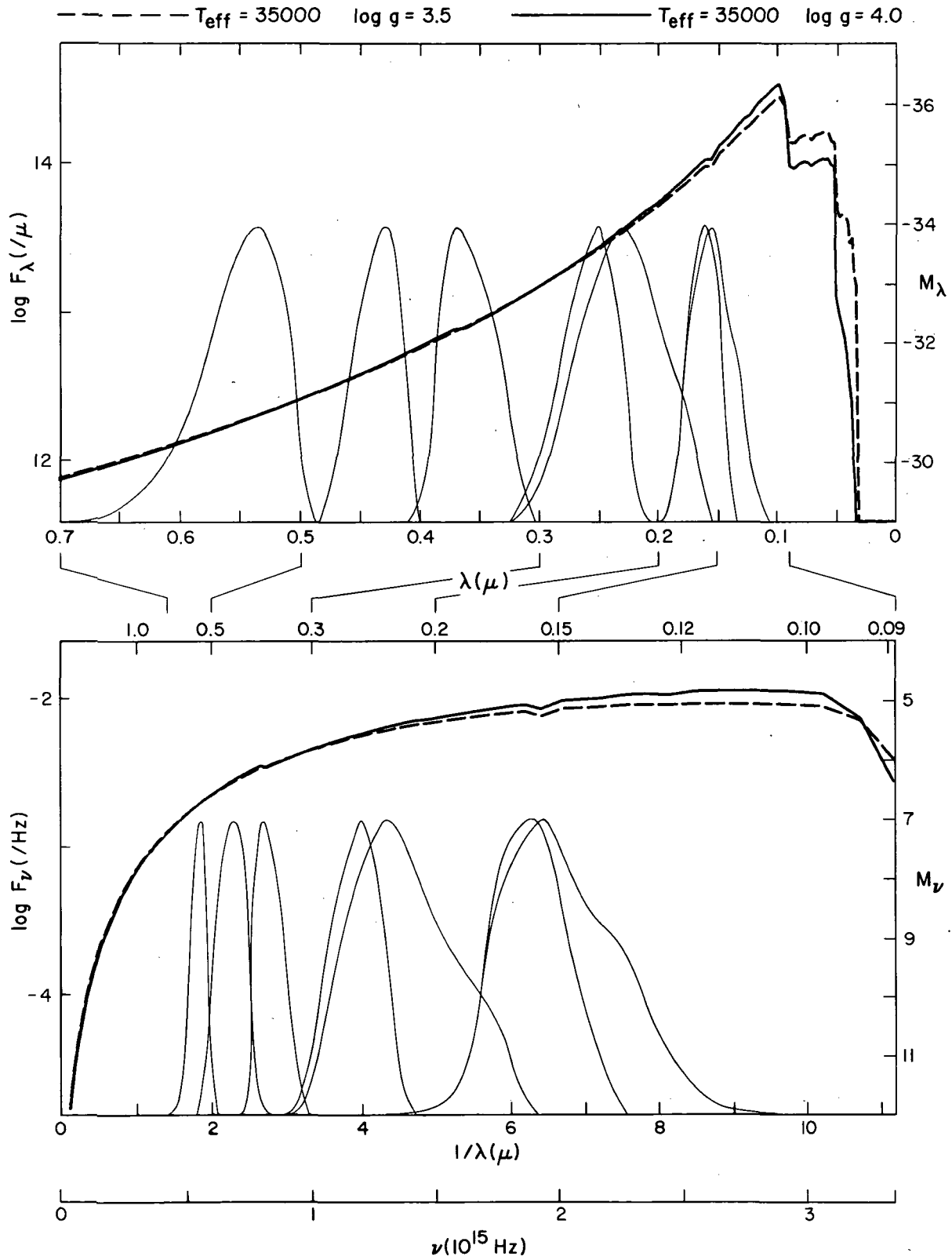
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LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	5.546+04	-11.860	9.957-14	32.505	3.755+04	-11.437	6.742-14	32.928
.0243	41.1523	1.234+16	2.088+05	-13.299	4.113-13	30.965	1.416+05	-12.878	2.789-13	31.386
.0255	39.2157	1.176+16	6.906+05	-14.598	1.498-12	49.561	4.745+05	-14.191	1.029-12	29.969
.0265	37.7358	1.131+16	2.051+06	-15.780	4.804-12	48.296	1.332+06	-15.311	3.120-12	28.765
.0277	36.1011	1.082+16	5.644+06	-16.879	1.445-11	47.101	3.703+06	-16.421	9.477-12	27.558
.0292	34.2466	1.027+16	1.778+07	-18.125	5.057-11	45.740	1.176+07	-17.676	3.345-11	26.189
.0308	32.4675	9.734+15	5.064+07	-19.261	1.602-10	44.488	3.397+07	-18.828	1.075-10	24.922
.0326	30.6748	9.196+15	1.583+08	-20.499	5.612-10	43.127	1.061+08	-20.064	3.761-10	23.562
.0344	29.0698	8.715+15	4.139+08	-21.542	1.634+09	41.967	2.817+08	-21.124	1.112+09	22.385
.0361	27.7008	8.305+15	1.400+09	-22.865	6.086+09	40.539	9.285+08	-22.419	4.036+09	20.985
.0380	26.3158	7.889+15	3.343+09	-23.810	1.610+08	39.483	2.203+09	-23.358	1.061+08	19.936
.0400	25.0000	7.495+15	7.765+09	-24.725	4.144+08	38.456	5.013+09	-24.250	2.675+08	18.932
.0420	23.8095	7.138+15	1.509+10	-25.447	8.879+08	37.629	9.852+09	-24.984	5.797+08	18.092
.0442	22.6244	6.783+15	2.731+10	-26.091	1.780+07	36.874	1.821+10	-25.651	1.187+07	17.314
.0467	21.4133	6.420+15	4.927+10	-26.731	3.584+07	36.114	3.368+10	-26.318	2.450+07	16.527
.0492	20.3252	6.093+15	8.443+10	-27.316	6.817+07	35.416	5.868+10	-26.921	4.738+07	15.811
.0515	19.4175	5.821+15	1.650+12	-30.544	1.460+05	34.089	1.190+12	-30.189	1.053+05	12.444
.0540	18.5185	5.552+15	1.967+12	-30.735	1.913+05	32.796	1.476+12	-30.423	1.436+05	12.107
.0565	17.6991	5.306+15	2.448+12	-30.972	2.607+05	31.460	1.848+12	-30.667	1.968+05	11.765
.0587	17.0358	5.107+15	2.714+12	-31.084	3.119+05	31.265	2.078+12	-30.794	2.388+05	11.555
.0612	16.3399	4.899+15	3.219+12	-31.269	4.022+05	30.989	2.502+12	-30.996	3.126+05	11.263
.0634	15.7729	4.729+15	3.521+12	-31.367	4.721+05	30.815	2.769+12	-31.106	3.713+05	11.076
.0671	14.9031	4.468+15	4.066+12	-31.523	6.106+05	30.536	3.262+12	-31.284	4.899+05	10.775
.0705	14.1844	4.252+15	4.729+12	-31.687	7.840+05	30.264	3.861+12	-31.467	6.401+05	10.484
.0736	13.5870	4.073+15	5.316+12	-31.814	9.605+05	30.044	4.354+12	-31.597	7.867+05	10.260
.0770	12.9870	3.893+15	6.275+12	-31.994	1.241+04	29.766	5.158+12	-31.781	1.020+04	9.978
.0810	12.3457	3.701+15	6.937+12	-32.103	1.518+04	29.547	5.774+12	-31.904	1.264+04	9.746
.0850	11.7647	3.527+15	7.371+12	-32.169	1.776+04	29.376	6.238+12	-31.988	1.503+04	9.557
.0890	11.2360	3.368+15	8.534+12	-32.328	2.255+04	29.117	7.219+12	-32.146	1.907+04	9.299
.0930	10.7527	3.224+15	9.768+13	-32.4975	2.818+03	28.875	7.592+13	-32.401	2.190+03	8.649
.0975	10.2564	3.075+15	2.049+14	-35.779	6.497+03	28.468	2.118+14	-35.815	6.716+03	5.432
.1025	9.7561	2.925+15	2.114+14	-35.813	7.409+03	28.326	2.157+14	-35.835	7.559+03	5.304
.1075	9.3023	2.789+15	2.047+14	-35.778	7.891+03	28.257	2.176+14	-35.844	8.388+03	5.191
.1125	8.8869	2.665+15	1.913+14	-35.704	8.076+03	28.232	2.008+14	-35.757	8.477+03	5.179
.1175	8.5106	2.551+15	1.690+14	-35.570	7.783+03	28.272	1.757+14	-35.612	8.091+03	5.230
.1220	8.1967	2.457+15	1.311+14	-35.294	6.509+03	28.466	1.273+14	-35.262	6.320+03	5.498
.1270	7.8740	2.361+15	1.382+14	-35.351	7.435+03	28.322	1.417+14	-35.378	7.624+03	5.295
.1325	7.5472	2.263+15	1.223+14	-35.219	7.162+03	28.362	1.245+14	-35.238	7.291+03	5.343
.1375	7.2727	2.180+15	1.043+14	-35.046	6.578+03	28.455	1.061+14	-35.064	6.691+03	5.436
.1422	7.0323	2.108+15	9.538+13	-34.949	6.433+03	28.479	9.658+13	-34.962	6.514+03	5.465
.1482	6.7476	2.023+15	8.769+13	-34.857	6.424+03	28.480	8.795+13	-34.861	6.443+03	5.477
.1547	6.4641	1.938+15	7.316+13	-34.661	5.840+03	28.584	7.388+13	-34.671	5.898+03	5.573
.1598	6.2578	1.876+15	6.955+13	-34.606	5.924+03	28.568	6.916+13	-34.600	5.891+03	5.575
.1649	6.0643	1.818+15	6.306+13	-34.499	5.720+03	28.607	6.251+13	-34.490	5.670+03	5.616
.1730	5.7803	1.733+15	5.428+13	-34.337	5.419+03	28.665	5.360+13	-34.323	5.351+03	5.679
.1830	5.4645	1.638+15	4.540+13	-34.143	5.072+03	28.737	4.463+13	-34.124	4.985+03	5.756
.1930	5.1813	1.553+15	3.836+13	-33.960	4.766+03	28.805	3.761+13	-33.938	4.673+03	5.826
.2015	4.9628	1.488+15	3.342+13	-33.810	4.526+03	28.861	3.270+13	-33.786	4.429+03	5.884
.2100	4.7619	1.428+15	2.937+13	-33.670	4.320+03	28.911	2.863+13	-33.642	4.212+03	5.939
.2200	4.5455	1.363+15	2.524+13	-33.505	4.075+03	28.975	2.458+13	-33.476	3.968+03	6.003
.2300	4.3478	1.303+15	2.182+13	-33.347	3.850+03	29.036	2.123+13	-33.317	3.746+03	6.066
.2400	4.1667	1.249+15	1.897+13	-33.195	3.645+03	29.096	1.845+13	-33.165	3.545+03	6.126
.2482	4.0290	1.208+15	1.689+13	-33.069	3.471+03	29.149	1.645+13	-33.040	3.380+03	6.178
.2557	3.9108	1.172+15	1.540+13	-32.969	3.359+03	29.185	1.496+13	-32.937	3.263+03	6.216
.2660	3.7594	1.127+15	1.351+13	-32.827	3.189+03	29.241	1.313+13	-32.796	3.099+03	6.272
.2770	3.6101	1.082+15	1.180+13	-32.680	3.020+03	29.300	1.146+13	-32.648	2.933+03	6.332
.2870	3.4843	1.045+15	1.049+13	-32.552	2.882+03	29.351	1.019+13	-32.520	2.800+03	6.382
.2970	3.3670	1.009+15	9.350+12	-32.427	2.751+03	29.401	9.082+12	-32.395	2.672+03	6.433
.3070	3.2573	9.765+14	8.365+12	-32.306	2.630+03	29.450	8.126+12	-32.275	2.555+03	6.482
.3170	3.1546	9.457+14	7.518+12	-32.190	2.520+03	29.496	7.305+12	-32.159	2.449+03	6.528
.3270	3.0581	9.168+14	6.768+12	-32.076	2.414+03	29.543	6.576+12	-32.045	2.346+03	6.574
.3370	2.9674	8.896+14	6.110+12	-31.965	2.315+03	29.589	5.938+12	-31.934	2.249+03	6.620
.3480	2.8736	8.615+14	5.546+12	-31.860	2.240+03	29.624	5.394+12	-31.830	2.179+03	6.654
.3600	2.7778	8.328+14	4.937+12	-31.734	2.134+03	29.677	4.803+12	-31.704	2.076+03	6.707
.3700	2.7027	8.102+14	5.507+12	-31.852	2.515+03	29.699	5.437+12	-31.838	2.483+03	6.513
.3800	2.6316	7.889+14	5.000+12	-31.747	2.408+03	29.746	4.935+12	-31.733	2.377+03	6.560
.3900	2.5641	7.687+14	4.551+12	-31.645	2.309+03	29.791	4.490+12	-31.631	2.278+03	6.606
.4000	2.5000	7.495+14	4.152+12	-31.546	2.216+03	29.836	4.094+12	-31.530	2.185+03	6.651
.4200	2.3810	7.138+14	3.476+12	-31.353	2.045+03	29.923	3.425+12	-31.337	2.015+03	6.739
.4400	2.2727	6.813+14	2.933+12	-31.168	1.894+03	30.007	2.888+12	-31.151	1.865+03	6.823
.4600	2.1739	6.517+14	2.492+12	-30.991	1.759+03	30.087	2.453+12	-30.974	1.731+03	6.904
.4800	2.0833	6.246+14	2.131+12	-30.821	1.638+03	30.164	2.097+12	-30.804	1.612+03	6.982
.5000	2.0000	5.996+14	1.834+12	-30.658	1.529+03	30.239	1.804+12	-30.641	1.504+03	7.057
.5200	1.9231	5.765+14	1.586+12	-30.501	1.431+03	30.311	1.560+12	-30.483	1.407+03	7.129
.5400	1.8519	5.552+14	1.379+12	-30.349	1.341+03	30.381	1.356+12	-30.331	1.319+03	7.199
.5600	1.7841	5.359+14	1.058+12	-30.061	1.187+03	30.448	1.040+12	-30.043	1.167+03	7.332
.6350	1.5748	4.721+14	7.543+11	-29.694	1.015+03	30.748	7.413+11	-29.675	9.971+04	7.503
.6650	1.5038	4.508+14	6.347+11	-29.506	9.362+04	30.752	6.236+11	-29.487	9.199+04	7.591
.6950	1.4388	4.314+14	5.377+11	-29.326	8.663+04	30.765	5.283+11	-29.307	8.512+04	7.675
.7550	1.3245	3.971+14	3.935+11	-28.987	7.482+04	30.815	3.867+11	-28.968	7.353+04	7.834
.8100	1.2346	3.701+14	3.020+11	-28.700	6.609+04	30.950	2.967+11	-28.681	6.493+04	7.969
.8350	1.1976	3.590+14	2.792+11	-28.615	6.493+04	30.969	2.749+11	-28.598	6.393+04	7.986
.9000	1.1111	3.331+14	2.095+11	-28.303	5.660+04	31.118	2.063+11	-28.286	5.574+04	8.135
1.0000	1.0000	2.998+14	1.397+11	-27.863	4.660+04	31.329	1.375+11	-27.846	4.587+04	8.346
1.2000	.8333	2.498+14	6.905+10	-27.098	3.317+04	31.698	6.795+10	-27.080	3.264+04	8.716
1.6000	.5556	1.666+14	1.433+10	-25.391	1.549+04	32.525	1.410+10	-25.373	1.524+04	9.543
2.7000	.3704	1.110+14	2.904+09	-23.657	7.062+05	40.378	2.858+09	-23.640	6.950+05	10.395
4.0000	.2500	7.495+13	6.104+08	-21.964	3.258+05	41.218	6.004+08	-21.946	3.204+05	11.236
5.0000	.2000	5.996+13	2.510+08	-20.999	2.093+05	41.698	2.468+08	-20.981	2.058+05	11.716
6.5000	.1538	4.612+13	8.809+07	-19.862	1.241+05	42.265	8.658+07	-19.844	1.220+05	12.284





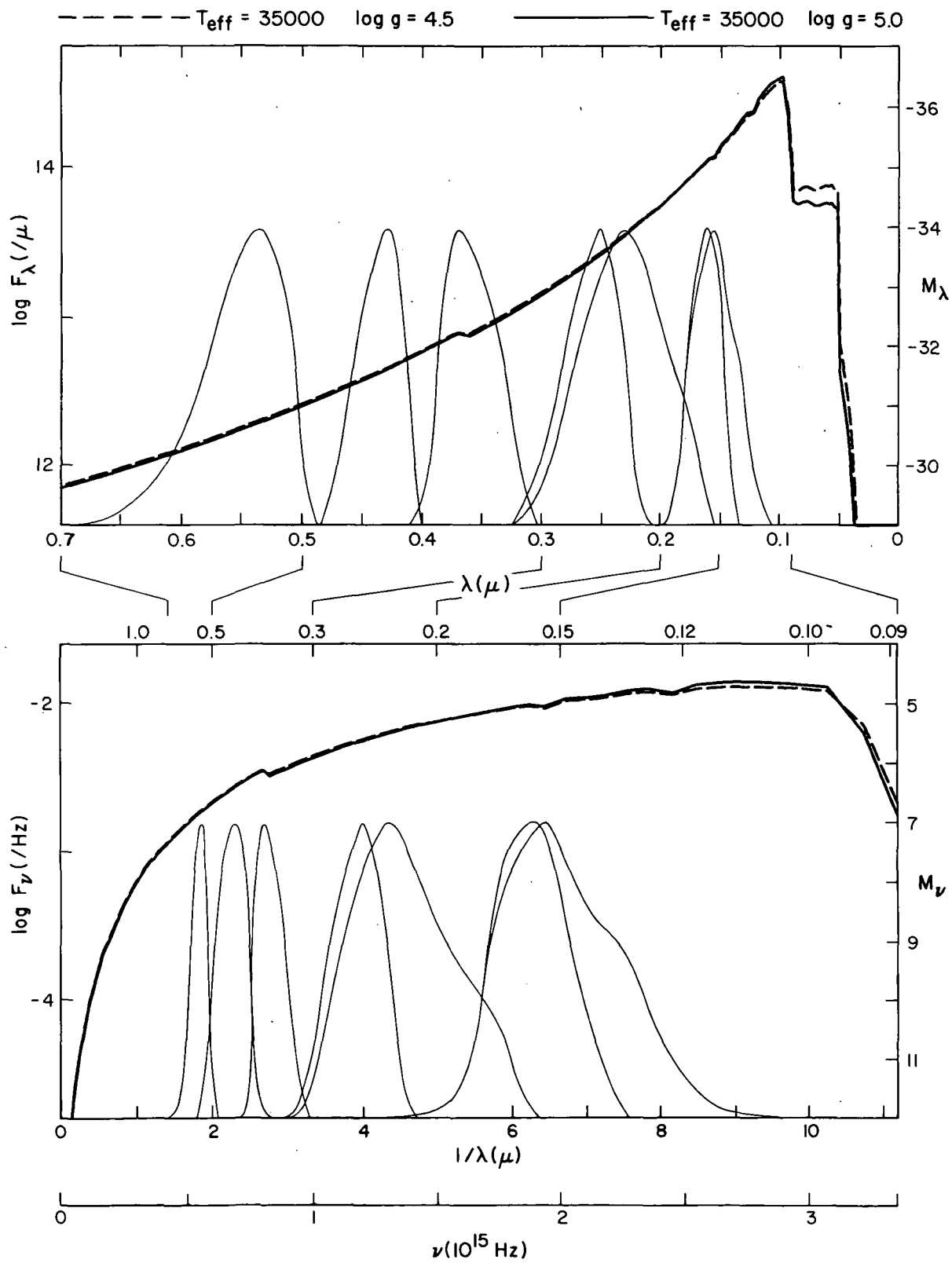
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TEFF = 35000

LOG G = 4.0

LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	2.225+09	-23.368	3.995+09	40.996	3.816+08	-21.454	6.851-10	22.911
.0243	41.1523	1.234+16	5.718+09	-24.393	1.126+08	19.871	1.044+09	-22.547	2.056-09	21.717
.0255	39.2157	1.176+16	1.445+10	-25.400	3.134+08	18.760	2.511+09	-23.500	5.446-09	20.660
.0265	37.7358	1.131+16	7.839+10	-27.236	1.836+07	16.840	1.164+10	-25.165	2.727-08	18.911
.0277	36.1011	1.082+16	1.387+11	-27.855	3.550+07	16.124	2.234+10	-25.873	5.718-08	18.107
.0292	34.2466	1.027+16	2.601+11	-28.538	7.398+07	15.327	4.487+10	-26.630	1.276-07	17.235
.0308	32.4675	9.734+15	1.499+12	-30.440	4.743+06	13.310	1.886+11	-28.189	5.968-07	15.560
.0326	30.6748	9.196+15	1.557+13	-32.981	5.520+05	10.645	7.049+11	-29.620	2.499-06	14.006
.0344	29.0698	8.715+15	1.839+13	-33.161	7.259+05	10.348	1.052+12	-30.055	4.153-06	13.454
.0361	27.7008	8.305+15	3.234+13	-33.774	1.406+04	9.630	2.490+12	-30.990	1.082-05	12.414
.0380	26.3158	7.889+15	2.978+13	-33.685	1.434+04	9.608	3.349+12	-31.312	1.613-05	11.981
.0400	25.0000	7.495+15	4.176+13	-34.052	2.229+04	9.130	5.309+12	-31.813	2.833-05	11.369
.0420	23.8095	7.138+15	4.448+13	-34.120	2.617+04	8.955	6.795+12	-32.080	3.998-05	10.995
.0442	22.6244	6.783+15	4.645+13	-34.167	3.027+04	8.797	8.316+12	-32.300	5.419-05	10.665
.0467	21.4133	6.420+15	4.462+13	-34.124	3.246+04	8.722	1.009+13	-32.510	7.340-05	10.336
.0492	20.3252	6.093+15	5.046+13	-34.257	4.074+04	8.475	1.291+13	-32.777	1.042-04	9.955
.0515	19.4175	5.821+15	1.408+14	-35.372	1.246+03	7.262	9.759+13	-34.974	8.634-04	7.660
.0540	18.5185	5.552+15	1.453+14	-35.406	1.413+03	7.124	9.977+13	-34.997	9.704-04	7.533
.0565	17.6991	5.306+15	1.645+14	-35.540	1.752+03	6.891	1.108+14	-35.111	1.180-03	7.320
.0587	17.0358	5.107+15	1.628+14	-35.529	1.871+03	6.820	1.082+14	-35.086	1.244-03	7.263
.0612	16.3399	4.899+15	1.659+14	-35.550	2.073+03	6.709	1.101+14	-35.104	1.376-03	7.154
.0634	15.7729	4.729+15	1.611+14	-35.518	2.160+03	6.664	1.078+14	-35.082	1.445-03	7.100
.0671	14.9031	4.468+15	1.579+14	-35.496	2.371+03	6.562	1.038+14	-35.040	1.559-03	7.018
.0705	14.1844	4.252+15	1.461+14	-35.412	2.422+03	6.539	9.793+13	-34.977	1.624-03	6.974
.0736	13.5870	4.073+15	1.564+14	-35.486	2.826+03	6.372	1.031+14	-35.033	1.863-03	6.825
.0770	12.9870	3.893+15	1.579+14	-35.496	3.123+03	6.264	1.054+14	-35.057	2.084-03	6.702
.0810	12.3457	3.701+15	1.513+14	-35.450	3.311+03	6.200	1.017+14	-35.018	2.226-03	6.631
.0850	11.7647	3.527+15	1.390+14	-35.358	3.350+03	6.187	9.422+13	-34.935	2.271-03	6.610
.0890	11.2360	3.368+15	1.425+14	-35.385	3.765+03	6.061	9.755+13	-34.973	2.577-03	6.472
.0930	10.7527	3.224+15	2.523+14	-36.005	7.279+03	5.345	2.623+14	-36.047	7.567-03	5.303
.0975	10.2564	3.075+15	2.838+14	-36.133	8.999+03	5.114	3.460+14	-36.348	1.097-02	4.899
.1025	9.7561	2.925+15	2.653+14	-36.059	9.297+03	5.079	3.274+14	-36.288	1.147-02	4.851
.1075	9.3023	2.789+15	2.423+14	-35.961	9.340+03	5.074	2.982+14	-36.186	1.149-02	4.849
.1125	8.8889	2.665+15	2.227+14	-35.869	9.402+03	5.067	2.730+14	-36.090	1.153-02	4.846
.1175	8.5106	2.551+15	2.027+14	-35.767	9.335+03	5.075	2.450+14	-35.973	1.128-02	4.869
.1220	8.1967	2.457+15	1.843+14	-35.664	9.150+03	5.096	2.161+14	-35.837	1.073-02	4.924
.1270	7.8740	2.361+15	1.713+14	-35.584	9.216+03	5.089	2.032+14	-35.770	1.093-02	4.903
.1325	7.5472	2.263+15	1.557+14	-35.481	9.118+03	5.100	1.823+14	-35.652	1.068-02	4.929
.1375	7.2727	2.180+15	1.413+14	-35.375	8.911+03	5.125	1.618+14	-35.522	1.020-02	4.978
.1422	7.0323	2.108+15	1.301+14	-35.288	8.775+03	5.142	1.480+14	-35.426	9.983-03	5.002
.1482	6.7476	2.023+15	1.183+14	-35.182	8.667+03	5.155	1.344+14	-35.321	9.846-03	5.017
.1547	6.4641	1.938+15	9.624+13	-34.958	7.683+03	5.286	1.080+14	-35.084	8.622-03	5.161
.1598	6.2578	1.876+15	9.737+13	-34.971	8.294+03	5.203	1.085+14	-35.089	9.242-03	5.086
.1649	6.0643	1.818+15	8.955+13	-34.880	8.122+03	5.226	9.907+13	-34.990	8.986-03	5.116
.1730	5.7803	1.733+15	7.863+13	-34.739	7.850+03	5.263	8.604+13	-34.837	8.590-03	5.165
.1830	5.4645	1.638+15	6.726+13	-34.569	7.513+03	5.310	7.272+13	-34.654	8.123-03	5.226
.1930	5.1813	1.553+15	5.780+13	-34.405	7.182+03	5.359	6.183+13	-34.478	7.682-03	5.286
.2015	4.9628	1.488+15	5.101+13	-34.269	6.909+03	5.402	5.412+13	-34.333	7.330-03	5.337
.2100	4.7619	1.428+15	4.573+13	-34.151	6.727+03	5.430	4.885+13	-34.222	7.186-03	5.359
.2200	4.5455	1.363+15	3.980+13	-34.000	6.426+03	5.480	4.210+13	-34.061	6.797-03	5.419
.2300	4.3478	1.303+15	3.477+13	-33.853	6.135+03	5.530	3.646+13	-33.905	6.434-03	5.479
.2400	4.1667	1.249+15	3.050+13	-33.711	5.860+03	5.580	3.173+13	-33.754	6.096-03	5.537
.2482	4.0290	1.208+15	2.736+13	-33.593	5.622+03	5.625	2.822+13	-33.626	5.799-03	5.592
.2557	3.9108	1.172+15	2.501+13	-33.495	5.454+03	5.658	2.573+13	-33.526	5.612-03	5.627
.2660	3.7594	1.127+15	2.206+13	-33.359	5.207+03	5.709	2.255+13	-33.383	5.322-03	5.685
.2770	3.6101	1.082+15	1.936+13	-33.217	4.955+03	5.762	1.968+13	-33.235	5.037-03	5.745
.2870	3.4843	1.045+15	1.726+13	-33.093	4.742+03	5.810	1.745+13	-33.104	4.794-03	5.798
.2970	3.3670	1.009+15	1.543+13	-32.971	4.540+03	5.857	1.552+13	-32.977	4.567-03	5.851
.3070	3.2573	9.765+14	1.383+13	-32.852	4.348+03	5.904	1.386+13	-32.854	4.357-03	5.902
.3170	3.1546	9.457+14	1.243+13	-32.736	4.166+03	5.951	1.241+13	-32.734	4.160-03	5.952
.3270	3.0581	9.168+14	1.121+13	-32.624	3.998+03	5.995	1.114+13	-32.617	3.973-03	6.002
.3370	2.9674	8.896+14	1.013+13	-32.514	3.838+03	6.040	1.003+13	-32.503	3.800-03	6.051
.3480	2.8736	8.615+14	9.086+12	-32.396	3.670+03	6.088	9.006+12	-32.386	3.638-03	6.098
.3600	2.7778	8.328+14	8.094+12	-32.270	3.499+03	6.140	7.994+12	-32.257	3.456-03	6.154
.3700	2.7027	8.102+14	7.513+12	-32.190	3.431+03	6.162	7.846+12	-32.237	3.583-03	6.114
.3800	2.6316	7.889+14	6.856+12	-32.090	3.302+03	6.203	7.133+12	-32.133	3.436-03	6.160
.3900	2.5641	7.687+14	6.269+12	-31.993	3.181+03	6.244	6.499+12	-32.032	3.297-03	6.205
.4000	2.5000	7.495+14	5.743+12	-31.898	3.065+03	6.284	5.934+12	-31.933	3.167-03	6.248
.4200	2.3810	7.138+14	4.845+12	-31.713	2.851+03	6.363	4.975+12	-31.742	2.927-03	6.334
.4400	2.2727	6.813+14	4.115+12	-31.536	2.657+03	6.439	4.201+12	-31.558	2.713-03	6.416
.4600	2.1739	6.517+14	3.516+12	-31.365	2.482+03	6.513	3.572+12	-31.382	2.521-03	6.496
.4800	2.0833	6.246+14	3.022+12	-31.201	2.323+03	6.585	3.055+12	-31.213	2.348-03	6.573
.5000	2.0000	5.996+14	2.611+12	-31.042	2.177+03	6.655	2.629+12	-31.049	2.192-03	6.648
.5200	1.9231	5.765+14	2.268+12	-30.889	2.046+03	6.723	2.274+12	-30.892	2.051-03	6.720
.5400	1.8519	5.552+14	1.978+12	-30.741	1.924+03	6.790	1.976+12	-30.739	1.922-03	6.791
.5600	1.7841	5.169+14	1.527+12	-30.660	1.713+03	6.915	1.516+12	-30.452	1.701-03	6.923
.6350	1.5748	4.721+14	1.095+12	-30.099	1.473+03	7.080	1.079+12	-30.083	1.451-03	7.096
.6650	1.5038	4.508+14	9.235+11	-29.914	1.362+03	7.164	9.063+11	-29.893	1.337-03	7.185
.6950	1.4388	4.314+14	7.840+11	-29.736	1.263+03	7.246	7.669+11	-29.712	1.236-03	7.270
.7550	1.3245	3.971+14	5.756+11	-29.400	1.094+03	7.402	5.598+11	-29.370	1.064-03	7.432
.8160	1.2346	3.701+14	4.421+11	-29.114	9.675+04	7.536	4.283+11	-29.079	9.373+04	7.570
.8350	1.1976	3.590+14	3.965+11	-28.996	9.221+04	7.588	3.878+11	-28.972	9.019+04	7.612
.9000	1.1111	3.331+14	2.987+11	-28.688	8.070+04	7.733	2.906+11	-28.658	7.852+04	7.763
1.0000	1.0000	2.998+14	2.001+11	-28.253	6.675+04	7.939	1.935+11	-28.217	6.454+04	7.975
1.2000	.8333	2.498+14	9.949+10	-27.494	4.779+04	8.302	9.533+10	-27.448	4.779+04	8.348
1.8000	.5556	1.666+14	2.065+10	-25.787	2.232+04	9.128	1.956+10	-25.728	2.114+04	9.187
2.7000	.3704	1.110+14	4.199+09	-24.058	1.021+04	9.977	3.948+09	-23.991	9.600+05	10.044
4.0000	.2500	7.495+13	8.851+08	-22.367	4.724+05	10.814	8.289+08	-22.296	4.424+05	10.885
5.0000	.2000	5.996+13	3.642+08	-21.403	3.037+05	11.294	3.407+08	-21.331	2.841+05	11.366
6.5000	.1538	4.612+13	1.278+08	-20.266	1.801+05	11.861	1.195+08	-20.193	1.684+05	11.934



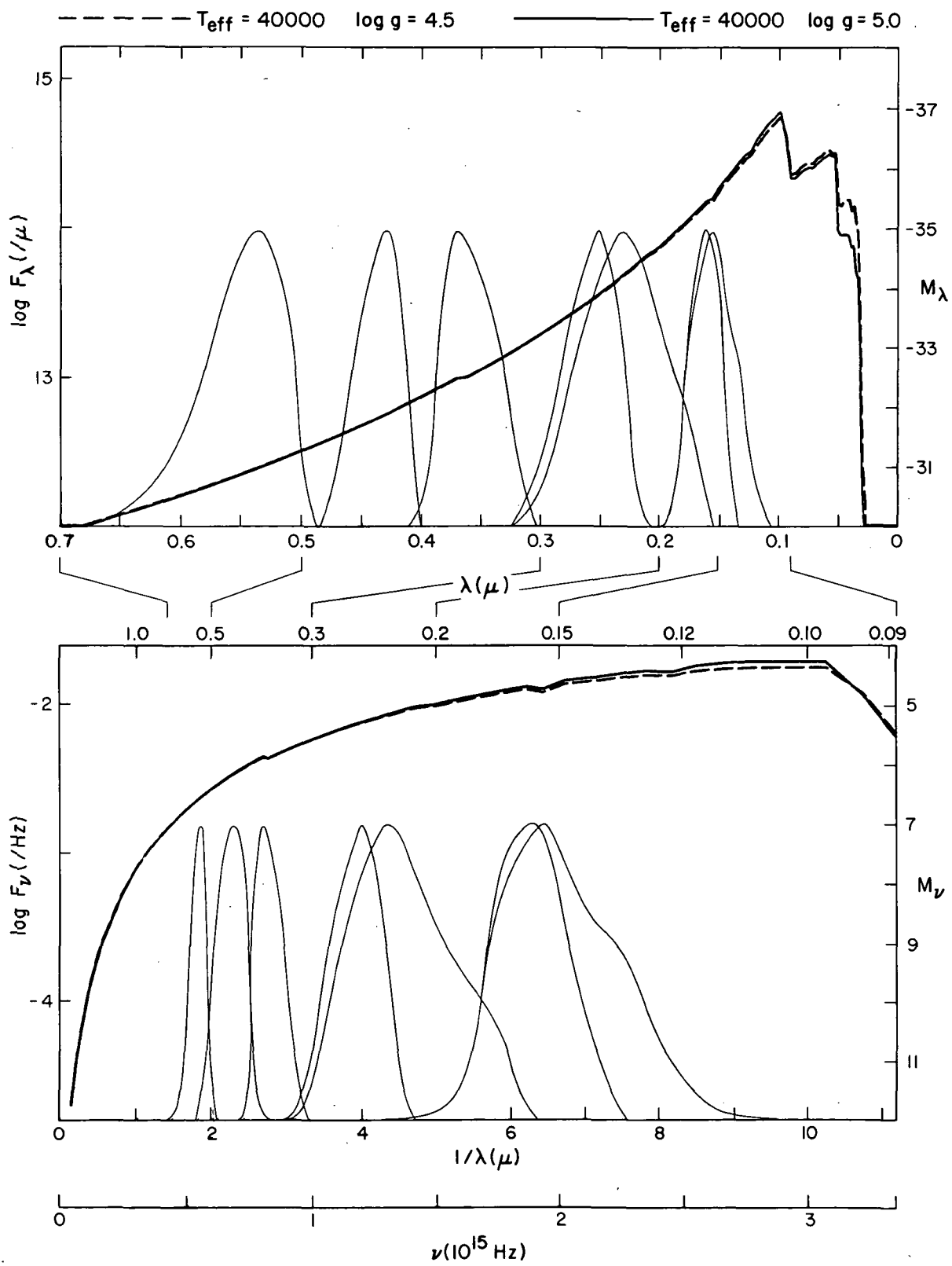
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LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	1.755+08	-20.611	3.151-10	43.754	1.235+08	-20.229	2.217-10	24.135
.0243	41.523	1.234+16	4.934+08	-21.733	9.718-10	42.531	3.547+08	-21.375	6.986-10	22.889
.0255	39.2157	1.176+16	1.195+09	-22.693	2.592-09	41.466	8.626+08	-22.340	1.871-09	21.820
.0265	37.7358	1.131+16	4.780+09	-24.199	1.120-08	49.877	3.024+09	-23.701	7.084-09	20.374
.0277	36.1011	1.082+16	9.460+09	-24.940	2.421-08	49.040	6.091+09	-24.462	1.559-09	19.518
.0292	34.2466	1.027+16	1.990+10	-25.747	5.660-08	48.118	1.332+10	-25.311	3.788-08	18.554
.0308	32.4675	9.734+15	6.870+10	-27.092	2.174-07	46.657	3.794+10	-26.448	1.201-07	17.302
.0326	30.6748	9.196+15	1.873+11	-28.181	6.640-07	45.445	9.512+10	-27.446	3.372-07	16.180
.0344	29.0698	8.715+15	3.355+11	-28.814	1.324-06	44.695	1.774+11	-28.122	7.002-07	15.387
.0361	27.7008	8.305+15	7.046+11	-29.620	3.063-06	43.785	3.768+11	-28.940	1.638-06	14.464
.0380	26.3158	7.889+15	1.140+12	-30.142	5.491-06	43.151	6.428+11	-29.520	3.096-06	13.773
.0400	25.0000	7.495+15	1.930+12	-30.714	1.030-05	42.468	1.115+12	-30.118	5.951-06	13.064
.0420	23.8095	7.138+15	2.761+12	-31.103	1.625-05	41.973	1.656+12	-30.548	9.744-06	12.528
.0442	22.6244	6.783+15	3.727+12	-31.428	2.429-05	41.537	2.319+12	-30.913	1.511-05	12.052
.0467	21.4133	6.420+15	4.945+12	-31.735	3.597-05	41.110	3.204+12	-31.264	2.331-05	11.581
.0492	20.3252	6.093+15	6.664+12	-32.059	5.381-05	40.673	4.421+12	-31.614	3.570-05	11.118
.0515	19.4175	5.821+15	6.955+13	-34.606	6.153-04	8.027	5.304+13	-34.312	4.692-04	8.322
.0540	18.5185	5.552+15	7.075+13	-34.624	6.882-04	7.906	5.416+13	-34.334	5.268-04	8.196
.0565	17.6991	5.306+15	7.701+13	-34.716	8.200-04	7.715	5.821+13	-34.412	6.196-04	8.019
.0587	17.0358	5.107+15	7.501+13	-34.688	8.621-04	7.661	5.696+13	-34.389	6.547-04	7.960
.0612	16.3399	4.899+15	7.624+13	-34.705	9.525-04	7.553	5.812+13	-34.411	7.261-04	7.847
.0634	15.7729	4.729+15	7.490+13	-34.686	1.004-03	7.495	5.743+13	-34.398	7.700-04	7.784
.0671	14.9031	4.468+15	7.228+13	-34.648	1.086-03	7.411	5.605+13	-34.371	8.418-04	7.687
.0705	14.1844	4.252+15	6.999+13	-34.613	1.160-03	7.339	5.555+13	-34.362	9.210-04	7.589
.0736	13.5870	4.073+15	7.285+13	-34.656	1.316-03	7.202	5.750+13	-34.399	1.039-03	7.458
.0770	12.9870	3.893+15	7.521+13	-34.691	1.487-03	7.069	5.980+13	-34.442	1.183-03	7.318
.0810	12.3457	3.701+15	7.355+13	-34.666	1.610-03	6.983	5.922+13	-34.431	1.296-03	7.218
.0850	11.7647	3.527+15	6.961+13	-34.607	1.678-03	6.938	5.700+13	-34.390	1.374-03	7.155
.0890	11.2360	3.368+15	7.242+13	-34.650	1.913-03	6.795	5.947+13	-34.436	1.571-03	7.009
.0930	10.7527	3.224+15	2.479+14	-35.986	7.152-03	5.364	2.204+14	-35.858	6.359-03	5.492
.0975	10.2564	3.075+15	3.846+14	-36.463	1.220-02	4.785	4.085+14	-36.528	1.295-02	4.719
.1025	9.7561	2.925+15	3.658+14	-36.408	1.282-02	4.730	3.895+14	-36.476	1.365-02	4.662
.1075	9.3023	2.789+15	3.363+14	-36.317	1.296-02	4.718	3.651+14	-36.406	1.407-02	4.629
.1125	8.8889	2.665+15	3.056+14	-36.213	1.290-02	4.723	3.295+14	-36.295	1.391-02	4.642
.1175	8.5106	2.551+15	2.713+14	-36.084	1.249-02	4.758	2.899+14	-36.156	1.335-02	4.686
.1220	8.1967	2.457+15	2.310+14	-35.909	1.147-02	4.851	2.367+14	-35.935	1.175-02	4.825
.1270	7.8740	2.361+15	2.215+14	-35.863	1.192-02	4.810	2.338+14	-35.922	1.258-02	4.751
.1325	7.5472	2.263+15	1.968+14	-35.735	1.152-02	4.846	2.061+14	-35.785	1.207-02	4.796
.1375	7.2727	2.180+15	1.721+14	-35.589	1.085-02	4.911	1.786+14	-35.630	1.126-02	4.871
.1422	7.0323	2.108+15	1.567+14	-35.488	1.057-02	4.940	1.620+14	-35.524	1.093-02	4.904
.1482	6.7476	2.023+15	1.420+14	-35.381	1.040-02	4.957	1.463+14	-35.413	1.072-02	4.925
.1547	6.4641	1.938+15	1.153+14	-35.155	9.204-03	5.090	1.199+14	-35.197	9.571-03	5.048
.1598	6.2578	1.876+15	1.132+14	-35.135	9.642-03	5.040	1.155+14	-35.156	9.838-03	5.018
.1649	6.0643	1.818+15	1.029+14	-35.031	9.333-03	5.075	1.045+14	-35.048	9.478-03	5.058
.1730	5.7803	1.733+15	8.871+13	-34.870	8.856-03	5.132	8.966+13	-34.881	8.951-03	5.120
.1830	5.4645	1.638+15	7.439+13	-34.679	8.310-03	5.201	7.475+13	-34.684	8.350-03	5.196
.1930	5.1813	1.553+15	6.283+13	-34.495	7.807-03	5.269	6.282+13	-34.495	7.805-03	5.269
.2015	4.9628	1.488+15	5.472+13	-34.345	7.411-03	5.325	5.449+13	-34.341	7.380-03	5.330
.2100	4.7619	1.428+15	4.894+13	-34.224	7.199-03	5.357	4.827+13	-34.209	7.101-03	5.372
.2200	4.5455	1.363+15	4.194+13	-34.057	6.771-03	5.423	4.123+13	-34.038	6.656-03	5.442
.2300	4.3478	1.303+15	3.615+13	-33.895	6.379-03	5.488	3.543+13	-33.873	6.252-03	5.510
.2400	4.1667	1.249+15	3.132+13	-33.740	6.018-03	5.551	3.062+13	-33.715	5.883-03	5.576
.2482	4.0290	1.208+15	2.776+13	-33.609	5.704-03	5.609	2.714+13	-33.584	5.577-03	5.634
.2557	3.9108	1.172+15	2.524+13	-33.505	5.505-03	5.648	2.461+13	-33.478	5.367-03	5.676
.2660	3.7594	1.127+15	2.205+13	-33.359	5.204-03	5.709	2.146+13	-33.329	5.065-03	5.739
.2770	3.6101	1.082+15	1.918+13	-33.207	4.909-03	5.773	1.864+13	-33.176	4.771-03	5.804
.2870	3.4843	1.045+15	1.696+13	-33.074	4.660-03	5.829	1.646+13	-33.041	4.522-03	5.862
.2970	3.3670	1.009+15	1.505+13	-32.944	4.428-03	5.884	1.460+13	-32.911	4.296-03	5.917
.3070	3.2573	9.765+14	1.341+13	-32.819	4.216-03	5.938	1.299+13	-32.784	4.084-03	5.972
.3170	3.1546	9.457+14	1.199+13	-32.697	4.019-03	5.990	1.161+13	-32.662	3.892-03	6.025
.3270	3.0581	9.168+14	1.075+13	-32.579	3.834-03	6.041	1.040+13	-32.543	3.709-03	6.077
.3370	2.9674	8.896+14	9.661+12	-32.463	3.660-03	6.091	9.349+12	-32.427	3.542-03	6.127
.3480	2.8736	8.615+14	8.685+12	-32.347	3.508-03	6.137	8.413+12	-32.312	3.399-03	6.172
.3600	2.7778	8.328+14	7.697+12	-32.216	3.327-03	6.195	7.453+12	-32.181	3.222-03	6.230
.3700	2.7027	8.102+14	7.834+12	-32.235	3.577-03	6.116	7.745+12	-32.223	3.537-03	6.128
.3800	2.6316	7.889+14	7.108+12	-32.129	3.424-03	6.164	7.019+12	-32.116	3.381-03	6.177
.3900	2.5641	7.687+14	6.463+12	-32.026	3.279-03	6.211	6.375+12	-32.011	3.234-03	6.226
.4000	2.5000	7.495+14	5.890+12	-31.925	3.144-03	6.256	5.804+12	-31.909	3.098-03	6.272
.4200	2.3810	7.138+14	4.921+12	-31.730	2.896-03	6.346	4.842+12	-31.713	2.849-03	6.363
.4400	2.2727	6.813+14	4.144+12	-31.544	2.676-03	6.431	4.071+12	-31.524	2.629-03	6.451
.4600	2.1739	6.517+14	3.513+12	-31.364	2.480-03	6.514	3.447+12	-31.344	2.433-03	6.535
.4800	2.0833	6.246+14	2.998+12	-31.192	2.304-03	6.594	2.939+12	-31.170	2.259-03	6.615
.5000	2.0000	5.996+14	2.574+12	-31.027	2.146-03	6.671	2.521+12	-31.004	2.102-03	6.693
.5200	1.9231	5.765+14	2.222+12	-30.867	2.004-03	6.745	2.175+12	-30.844	1.962-03	6.768
.5400	1.8519	5.552+14	1.928+12	-30.713	1.875-03	6.817	1.886+12	-30.689	1.834-03	6.841
.5600	1.7241	5.169+14	1.473+12	-30.421	1.653-03	6.954	1.439+12	-30.395	1.615-03	6.980
.6350	1.5748	4.721+14	1.045+12	-30.048	1.406-03	7.130	1.020+12	-30.022	1.372-03	7.157
.6650	1.5038	4.508+14	8.770+11	-29.857	1.294-03	7.220	8.555+11	-29.831	1.262-03	7.247
.6950	1.4388	4.314+14	7.412+11	-29.675	1.194-03	7.307	7.228+11	-29.648	1.165-03	7.335
.7550	1.3245	3.971+14	5.401+11	-29.331	1.027-03	7.471	5.264+11	-29.303	1.001-03	7.499
.8100	1.2346	3.701+14	4.128+11	-29.039	9.034-04	7.610	4.022+11	-29.011	8.802-04	7.639
.8350	1.1976	3.590+14	3.756+11	-28.937	8.735-04	7.647	3.670+11	-28.912	8.535-04	7.672
.9000	1.1111	3.331+14	2.810+11	-28.622	7.592-04	7.799	2.744+11	-28.596	7.414-04	7.825
1.0000	1.0000	2.998+14	1.867+11	-28.178	6.228-04	8.014	1.822+11	-28.151	6.078-04	8.041
1.2000	.8333	2.498+14	9.179+10	-27.407	4.409-04	8.389	8.950+10	-27.380	4.299-04	8.417
1.6000	.5556	1.666+14	1.880+10	-25.685	2.032-04	9.230	1.832+10	-25.657	1.980-04	9.258
2.7000	.3704	1.110+14	3.788+09	-23.946	9.211-05	10.089	3.689+09	-23.917	8.970-05	10.118
4.0000	.2500	7.495+13	7.947+08	-22.251	4.241-05	10.931	7.735+08	-22.221	4.128-05	10.961
5.0000	.2000	5.996+13	3.267+08	-21.285	2.724-05	11.412	3.179+08	-21.256	2.651-05	11.441
6.5000	.1538	4.612+13	1.146+08	-20.148	1.615-05	11.980	1.115+08	-20.118	1.571-05	12.009



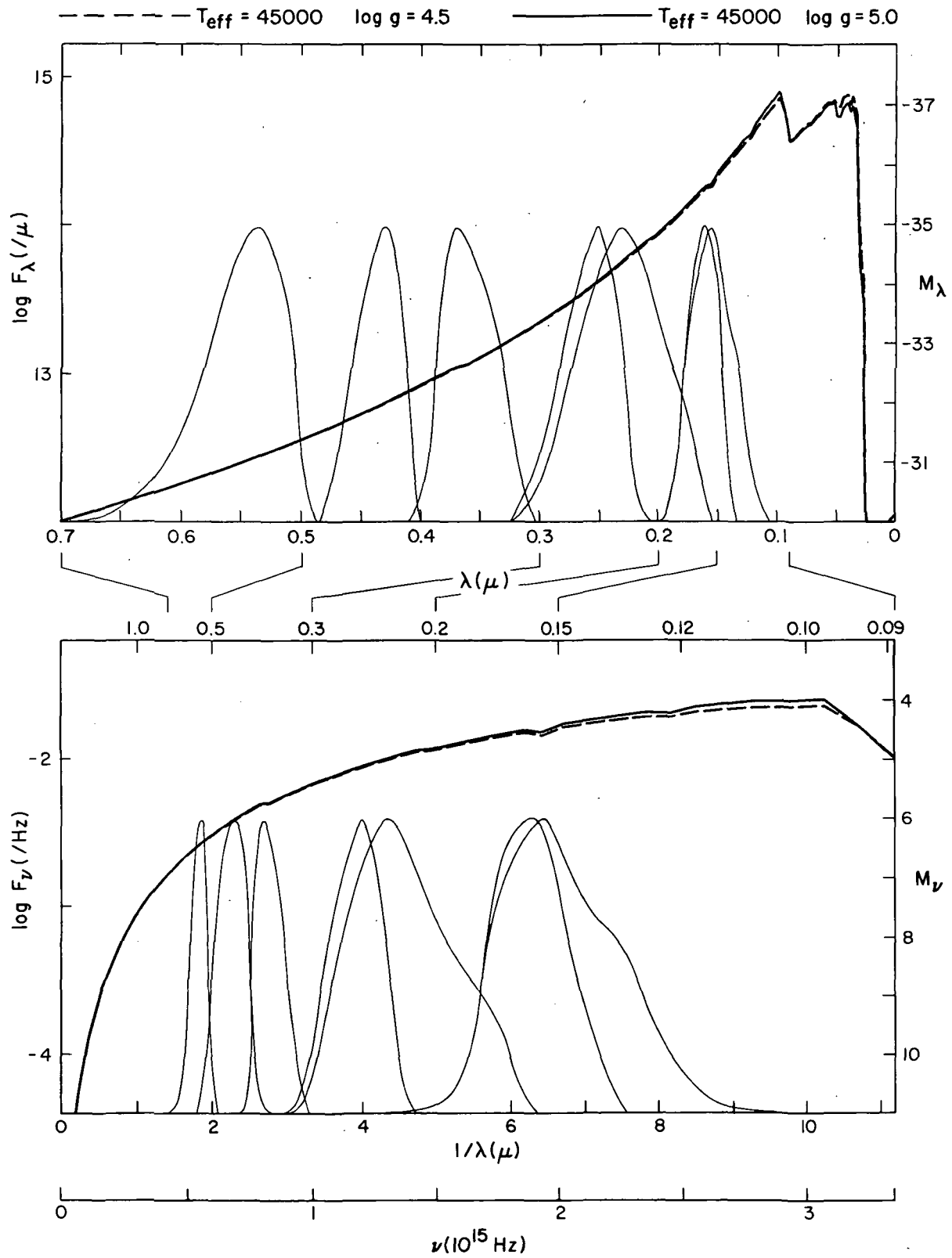
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TEFF = 40000

LOG G = 5.0

LAMBDA (MICRON)	1/LAMBDA	NL	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)	F(LAMBDA)	M(LAMBDA)	F(NL)	M(NL)
.6232	43.1034	1.292+16	4.401+10	-26.609	7.901-08	17.756	3.113+10	-26.233	5.589-08	18.132
.6243	41.1523	1.234+16	1.015+11	-27.516	1.999-07	16.748	7.334+10	-27.163	1.445-07	17.101
.6255	39.2157	1.176+16	2.304+11	-28.406	4.997-07	15.753	1.594+11	-28.006	3.457-07	16.153
.6265	37.7358	1.131+16	1.303+12	-30.287	3.052-06	13.788	7.114+11	-29.630	1.666-06	14.446
.6277	36.1011	1.082+16	1.792+12	-30.633	4.586-06	13.346	1.044+12	-30.047	2.672-06	13.933
.6292	34.2466	1.027+16	2.867+12	-31.144	8.154-06	12.722	1.694+12	-30.572	4.818-06	13.293
.6308	32.4675	9.734+15	1.989+13	-33.247	6.294-05	10.503	1.217+13	-32.713	3.851-05	11.036
.6326	30.6748	9.196+15	9.389+13	-34.932	3.328-04	8.694	4.472+13	-34.126	1.585-04	9.500
.6344	28.0698	8.715+15	1.064+14	-35.067	4.200-04	8.442	5.039+13	-34.256	1.989-04	9.253
.6361	27.7008	8.305+15	1.442+14	-35.397	6.268-04	8.007	7.556+13	-34.696	3.285-04	8.709
.6380	26.3158	7.889+15	1.288+14	-35.275	6.204-04	8.018	7.288+13	-34.657	3.510-04	8.637
.6400	25.0000	7.495+15	1.547+14	-35.474	8.256-04	7.708	8.836+13	-34.866	4.716-04	8.316
.6420	24.8095	7.138+15	1.536+14	-35.466	9.038-04	7.610	9.005+13	-34.886	5.299-04	8.190
.6442	22.6244	6.783+15	1.507+14	-35.445	9.821-04	7.520	9.011+13	-34.887	5.872-04	8.078
.6467	21.4133	6.420+15	1.394+14	-35.361	1.014-03	7.485	8.867+13	-34.869	6.450-04	7.976
.6492	20.3252	6.093+15	1.473+14	-35.421	1.189-03	7.312	9.653+13	-34.962	7.794-04	7.771
.6515	19.4175	5.821+15	3.188+14	-36.259	2.820-03	6.374	3.048+14	-36.210	2.697-03	6.423
.6540	18.5185	5.552+15	3.148+14	-36.245	3.062-03	6.285	3.012+14	-36.197	2.930-03	6.333
.6565	17.6991	5.306+15	3.313+14	-36.301	3.528-03	6.131	3.138+14	-36.242	3.341-03	6.190
.6587	17.0358	5.107+15	3.211+14	-36.267	3.691-03	6.082	3.027+14	-36.203	3.479-03	6.146
.6612	16.3399	4.899+15	3.158+14	-36.249	3.945-03	6.010	2.970+14	-36.182	3.711-03	6.076
.6634	15.7729	4.729+15	3.027+14	-36.203	4.059-03	5.979	2.857+14	-36.140	3.831-03	6.042
.6671	14.9031	4.468+15	2.893+14	-36.153	4.345-03	5.905	2.708+14	-36.082	4.067-03	5.977
.6705	14.1844	4.252+15	2.683+14	-36.072	4.448-03	5.880	2.526+14	-36.006	4.188-03	5.945
.6736	13.5870	4.073+15	2.726+14	-36.089	4.926-03	5.769	2.546+14	-36.015	4.600-03	5.843
.6770	12.9870	3.893+15	2.666+14	-36.065	5.273-03	5.695	2.490+14	-35.990	4.924-03	5.769
.6810	12.3457	3.701+15	2.519+14	-36.003	5.513-03	5.647	2.354+14	-35.930	5.152-03	5.720
.6850	11.7647	3.527+15	2.323+14	-35.915	5.598-03	5.630	2.172+14	-35.842	5.235-03	5.703
.6890	11.2360	3.368+15	2.286+14	-35.898	6.040-03	5.547	2.137+14	-35.825	5.646-03	5.621
.6930	10.7527	3.224+15	4.118+14	-36.537	1.188-02	4.813	4.021+14	-36.511	1.160-02	4.839
.6975	10.2564	3.075+15	5.565+14	-36.864	1.765-02	4.383	6.065+14	-36.957	1.923-02	4.290
.7025	9.7561	2.925+15	5.025+14	-36.753	1.761-02	4.386	5.486+14	-36.848	1.923-02	4.290
.7075	9.3023	2.789+15	4.558+14	-36.647	1.757-02	4.388	5.014+14	-36.750	1.933-02	4.285
.7125	8.8889	2.665+15	4.063+14	-36.522	1.715-02	4.414	4.445+14	-36.620	1.877-02	4.317
.7175	8.5106	2.551+15	3.597+14	-36.390	1.657-02	4.452	3.902+14	-36.478	1.797-02	4.364
.7220	8.1967	2.457+15	3.109+14	-36.232	1.544-02	4.529	3.293+14	-36.294	1.635-02	4.466
.7270	7.8740	2.361+15	2.898+14	-36.155	1.559-02	4.518	3.113+14	-36.233	1.675-02	4.440
.7325	7.5472	2.263+15	2.575+14	-36.027	1.508-02	4.554	2.747+14	-36.097	1.609-02	4.484
.7375	7.2727	2.180+15	2.293+14	-35.901	1.446-02	4.600	2.426+14	-35.962	1.530-02	4.538
.7422	7.0323	2.108+15	2.076+14	-35.793	1.400-02	4.634	2.190+14	-35.851	1.477-02	4.576
.7482	6.7476	2.023+15	1.849+14	-35.667	1.355-02	4.670	1.947+14	-35.723	1.426-02	4.614
.7547	6.4641	1.938+15	1.490+14	-35.433	1.189-02	4.812	1.577+14	-35.495	1.259-02	4.750
.7598	6.2578	1.876+15	1.470+14	-35.418	1.252-02	4.756	1.537+14	-35.467	1.309-02	4.707
.7649	6.0643	1.818+15	1.334+14	-35.313	1.210-02	4.793	1.391+14	-35.358	1.262-02	4.748
.7700	5.7803	1.733+15	1.149+14	-35.151	1.147-02	4.851	1.193+14	-35.192	1.191-02	4.810
.7830	5.4645	1.638+15	9.622+13	-34.958	1.075-02	4.922	9.950+13	-34.995	1.111-02	4.885
.7930	5.1813	1.553+15	8.117+13	-34.773	1.009-02	4.991	8.363+13	-34.806	1.039-02	4.958
.8015	4.9628	1.488+15	7.063+13	-34.622	9.566-03	5.048	7.257+13	-34.652	9.828-03	5.019
.8200	4.7619	1.428+15	6.399+13	-34.515	9.413-03	5.066	6.549+13	-34.540	9.634-03	5.041
.8220	4.5455	1.363+15	5.483+13	-34.348	8.852-03	5.132	5.595+13	-34.370	9.033-03	5.110
.8230	4.3478	1.303+15	4.725+13	-34.186	8.338-03	5.197	4.808+13	-34.205	8.484-03	5.179
.8400	4.1667	1.249+15	4.093+13	-34.030	7.864-03	5.261	4.155+13	-34.046	7.983-03	5.245
.8482	4.0290	1.208+15	3.642+13	-33.903	7.484-03	5.315	3.690+13	-33.918	7.582-03	5.300
.8557	3.9108	1.172+15	3.299+13	-33.796	7.195-03	5.357	3.339+13	-33.809	7.282-03	5.344
.8660	3.7594	1.127+15	2.881+13	-33.649	6.800-03	5.419	2.910+13	-33.660	6.868-03	5.408
.8770	3.6101	1.082+15	2.505+13	-33.497	6.411-03	5.483	2.526+13	-33.506	6.465-03	5.474
.8870	3.4843	1.045+15	2.215+13	-33.363	6.086-03	5.539	2.231+13	-33.371	6.130-03	5.531
.8970	3.3670	1.005+15	1.966+13	-33.234	5.785-03	5.594	1.977+13	-33.240	5.817-03	5.588
.9070	3.2573	9.765+14	1.751+13	-33.108	5.505-03	5.648	1.758+13	-33.113	5.527-03	5.644
.9170	3.1546	9.457+14	1.564+13	-32.986	5.242-03	5.701	1.570+13	-32.990	5.263-03	5.697
.9270	3.0581	9.168+14	1.402+13	-32.867	5.001-03	5.752	1.405+13	-32.869	5.011-03	5.750
.9370	2.9674	8.896+14	1.260+13	-32.751	4.773-03	5.803	1.262+13	-32.753	4.781-03	5.801
.9480	2.8736	8.615+14	1.126+13	-32.629	4.549-03	5.855	1.128+13	-32.631	4.557-03	5.853
.9600	2.7778	8.328+14	9.977+12	-32.497	4.313-03	5.913	9.986+12	-32.498	4.317-03	5.912
.9700	2.7027	8.102+14	9.601+12	-32.456	4.384-03	5.895	9.748+12	-32.472	4.451-03	5.879
.9800	2.6316	7.889+14	8.715+12	-32.351	4.198-03	5.942	8.837+12	-32.366	4.256-03	5.927
.9900	2.5641	7.687+14	7.927+12	-32.248	4.022-03	5.989	8.031+12	-32.262	4.075-03	5.975
.4000	2.5000	7.495+14	7.227+12	-32.147	3.857-03	6.034	7.314+12	-32.160	3.903-03	6.021
.4200	2.3810	7.138+14	6.043+12	-31.953	3.556-03	6.123	6.105+12	-31.964	3.592-03	6.112
.4400	2.2727	6.813+14	5.092+12	-31.767	3.288-03	6.208	5.136+12	-31.777	3.317-03	6.198
.4600	2.1739	6.517+14	4.321+12	-31.589	3.050-03	6.289	4.352+12	-31.597	3.072-03	6.282
.4800	2.0833	6.246+14	3.690+12	-31.418	2.836-03	6.368	3.711+12	-31.424	2.852-03	6.362
.5000	2.0000	5.996+14	3.170+12	-31.253	2.643-03	6.445	3.184+12	-31.257	2.655-03	6.440
.5200	1.9231	5.765+14	2.738+12	-31.094	2.470-03	6.518	2.748+12	-31.098	2.479-03	6.514
.5400	1.8519	5.552+14	2.377+12	-30.940	2.312-03	6.590	2.383+12	-30.943	2.318-03	6.587
.5600	1.7841	5.109+14	1.823+12	-30.652	2.046-03	6.723	1.823+12	-30.652	2.046-03	6.723
.6350	1.5748	4.721+14	1.294+12	-30.280	1.740-03	6.898	1.292+12	-30.278	1.738-03	6.900
.6650	1.5038	4.508+14	1.087+12	-30.091	1.603-03	6.987	1.083+12	-30.087	1.598-03	6.991
.6950	1.4388	4.314+14	9.189+11	-29.908	1.481-03	7.074	9.151+11	-29.904	1.474-03	7.078
.7550	1.3245	3.971+14	6.701+11	-29.565	1.274-03	7.237	6.662+11	-29.559	1.267-03	7.243
.8100	1.2346	3.701+14	5.121+11	-29.273	1.121-03	7.376	5.086+11	-29.266	1.113-03	7.384
.8350	1.1976	3.590+14	4.607+11	-29.159	1.071-03	7.425	4.586+11	-29.154	1.067-03	7.430
.9000	1.1111	3.331+14	3.451+11	-28.845	9.324-04	7.576	3.431+11	-28.839	9.270-04	7.582
1.0000	1.0000	2.998+14	2.297+11	-28.403	7.662-04	7.789	2.279+11	-28.394	7.602-04	7.798
1.2000	.8333	2.498+14	1.132+11	-27.635	5.437-04	8.162	1.120+11	-27.623	5.380-04	8.173
1.6000	.5556	1.666+14	2.318+10	-25.913	2.505-04	9.003	2.286+10	-25.898	2.471-04	9.018
2.7000	.3704	1.110+14	4.677+09	-24.175	1.137-04	9.860	4.603+09	-24.158	1.119-04	9.878
4.0000	.2500	7.495+13	9.813+08	-22.480	5.237-05	10.702	9.650+08	-22.461	5.150-05	10.720
5.0000	.2000	5.996+13	4.030+08	-21.513	3.361-05	11.184	3.963+08	-21.495	3.305-05	11.202
6.5000	.1538	4.612+13	1.411+08	-20.374	1.989-05	11.754	1.388+08	-20.356	1.956-05	11.772



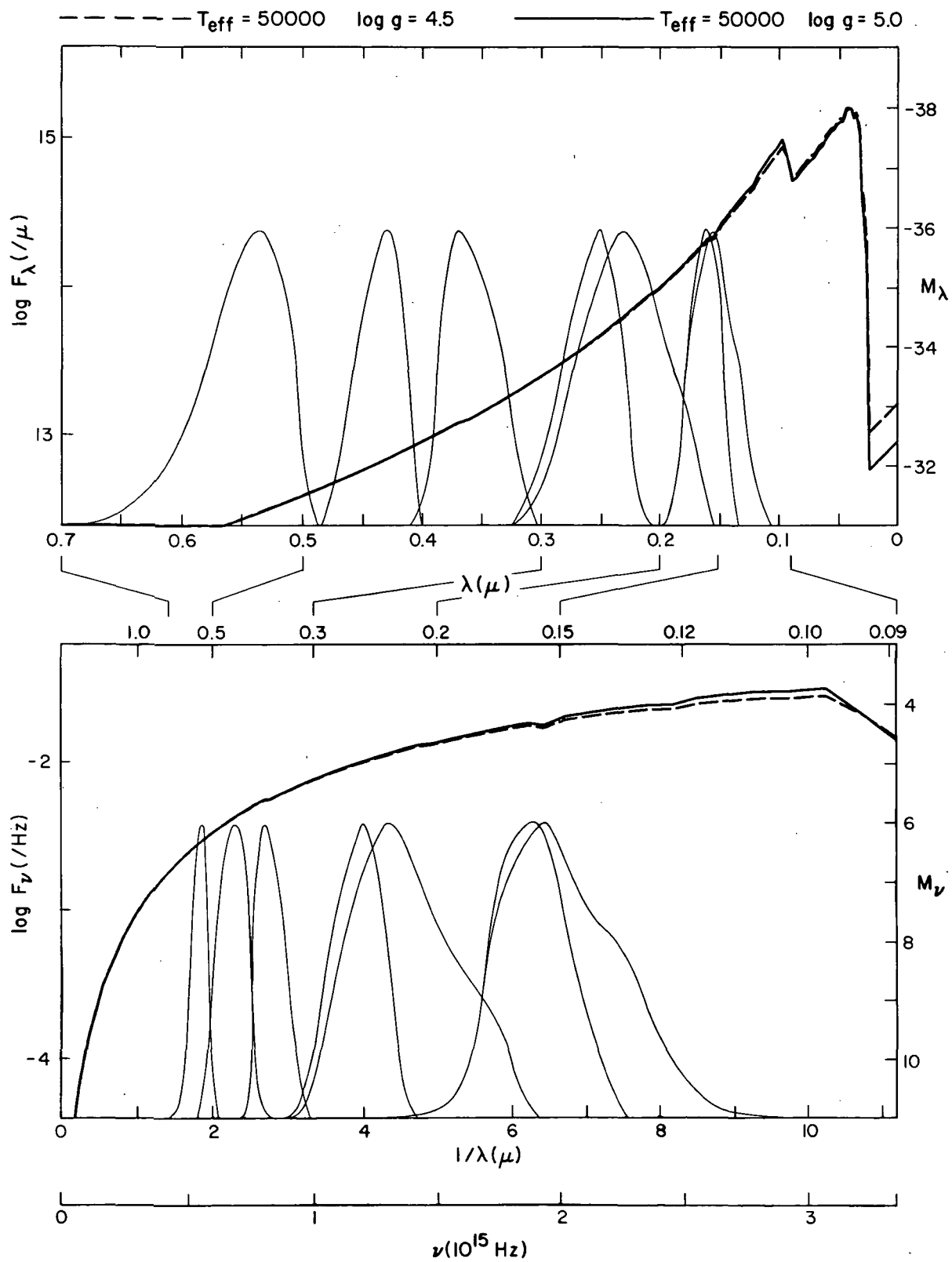
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TEFF = 45000

LOG G = 5.0

LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	7.039+11	-29.619	1.264-06	14.746	6.158+11	-29.474	1.106-06	14.891
.0243	41.1523	1.234+16	1.462+12	-30.412	2.880-06	13.852	1.340+12	-30.318	2.639-06	13.946
.0255	39.2157	1.176+16	5.236+12	-31.797	1.136-05	12.362	3.918+12	-31.483	8.498-06	12.677
.0265	37.7358	1.131+16	4.336+13	-34.093	1.016-04	9.983	2.930+13	-33.667	6.863-05	10.409
.0277	36.1011	1.082+16	5.487+13	-34.348	1.404-04	9.631	3.786+13	-33.945	9.690-05	10.034
.0292	34.2466	1.027+16	8.084+13	-34.769	2.299-04	9.096	5.618+13	-34.374	1.598-04	9.491
.0308	32.4675	9.734+15	1.578+14	-35.495	4.993-04	8.254	1.386+14	-35.354	4.386-04	8.395
.0326	30.6748	9.196+15	5.504+14	-36.852	1.951-03	6.774	4.510+14	-36.635	1.599-03	6.991
.0344	29.0698	8.715+15	6.624+14	-37.053	2.615-03	6.456	5.463+14	-36.844	2.156-03	6.666
.0361	27.7008	8.305+15	7.357+14	-37.167	3.198-03	6.238	6.358+14	-37.008	2.764-03	6.396
.0380	26.3158	7.889+15	6.465+14	-37.026	3.114-03	6.267	5.782+14	-36.905	2.785-03	6.388
.0400	25.0000	7.495+15	7.572+14	-37.198	4.041-03	5.984	6.663+14	-37.059	3.556-03	6.123
.0420	23.8095	7.138+15	7.402+14	-37.173	4.355-03	5.902	6.466+14	-37.027	3.805-03	6.049
.0442	22.6244	6.783+15	7.231+14	-37.148	4.712-03	5.817	6.181+14	-36.978	4.028-03	5.987
.0467	21.4133	6.420+15	6.236+14	-36.987	4.536-03	5.858	5.368+14	-36.825	3.905-03	6.021
.0492	20.3252	6.093+15	6.396+14	-37.015	5.164-03	5.717	5.376+14	-36.826	4.341-03	5.906
.0515	19.4175	5.821+15	6.965+14	-37.107	6.162-03	5.526	6.816+14	-37.084	6.030-03	5.549
.0540	18.5185	5.552+15	6.614+14	-37.051	6.433-03	5.479	6.487+14	-37.030	6.310-03	5.500
.0565	17.6991	5.306+15	6.719+14	-37.068	7.155-03	5.364	6.524+14	-37.036	6.947-03	5.396
.0587	17.0358	5.107+15	6.433+14	-37.021	7.394-03	5.328	6.228+14	-36.986	7.158-03	5.363
.0612	16.3399	4.899+15	6.167+14	-36.975	7.705-03	5.283	5.966+14	-36.939	7.454-03	5.319
.0634	15.7729	4.729+15	5.735+14	-36.896	7.689-03	5.285	5.608+14	-36.872	7.519-03	5.310
.0671	14.9031	4.468+15	5.429+14	-36.837	8.154-03	5.222	5.264+14	-36.803	7.906-03	5.255
.0705	14.1844	4.252+15	4.933+14	-36.733	8.178-03	5.218	4.816+14	-36.707	7.984-03	5.244
.0736	13.5870	4.073+15	4.869+14	-36.719	8.798-03	5.139	4.735+14	-36.688	8.556-03	5.169
.0770	12.9870	3.893+15	4.638+14	-36.666	9.173-03	5.094	4.515+14	-36.637	8.929-03	5.123
.0810	12.3457	3.701+15	4.292+14	-36.582	9.393-03	5.068	4.192+14	-36.556	9.174-03	5.094
.0850	11.7647	3.527+15	3.914+14	-36.482	9.433-03	5.063	3.832+14	-36.459	9.235-03	5.086
.0890	11.2360	3.368+15	3.740+14	-36.432	9.882-03	5.013	3.663+14	-36.410	9.678-03	5.036
.0930	10.7527	3.224+15	5.642+14	-36.879	1.628-02	4.471	5.661+14	-36.882	1.633-02	4.467
.0975	10.2564	3.075+15	7.209+14	-37.145	2.286-02	4.102	7.958+14	-37.252	2.523-02	3.995
.1025	9.7561	2.925+15	6.370+14	-37.010	2.232-02	4.128	7.022+14	-37.116	2.461-02	4.022
.1075	9.3023	2.789+15	5.757+14	-36.900	2.219-02	4.135	6.363+14	-37.009	2.453-02	4.026
.1125	8.8889	2.665+15	5.072+14	-36.763	2.141-02	4.173	5.564+14	-36.863	2.349-02	4.073
.1175	8.5106	2.551+15	4.477+14	-36.627	2.062-02	4.214	4.867+14	-36.718	2.241-02	4.124
.1220	8.1967	2.457+15	3.857+14	-36.466	1.915-02	4.295	4.104+14	-36.533	2.038-02	4.227
.1270	7.8740	2.361+15	3.549+14	-36.375	1.909-02	4.298	3.817+14	-36.454	2.054-02	4.219
.1325	7.5472	2.263+15	3.155+14	-36.247	1.848-02	4.333	3.363+14	-36.317	1.969-02	4.264
.1375	7.2727	2.180+15	2.813+14	-36.123	1.774-02	4.378	2.979+14	-36.185	1.879-02	4.315
.1422	7.0323	2.108+15	2.540+14	-36.012	1.713-02	4.415	2.678+14	-36.070	1.806-02	4.358
.1482	6.7476	2.023+15	2.243+14	-35.877	1.643-02	4.461	2.357+14	-35.931	1.727-02	4.407
.1547	6.4641	1.938+15	1.807+14	-35.642	1.443-02	4.602	1.906+14	-35.700	1.522-02	4.544
.1598	6.2578	1.876+15	1.773+14	-35.622	1.510-02	4.552	1.849+14	-35.667	1.575-02	4.507
.1649	6.0643	1.818+15	1.605+14	-35.514	1.456-02	4.592	1.669+14	-35.556	1.514-02	4.550
.1730	5.7803	1.733+15	1.377+14	-35.347	1.375-02	4.654	1.427+14	-35.386	1.425-02	4.616
.1830	5.4645	1.638+15	1.149+14	-35.151	1.284-02	4.729	1.185+14	-35.184	1.324-02	4.696
.1930	5.1813	1.553+15	9.654+13	-34.962	1.200-02	4.802	9.926+13	-34.992	1.233-02	4.772
.2015	4.9628	1.488+15	8.375+13	-34.807	1.134-02	4.863	8.591+13	-34.835	1.164-02	4.836
.2100	4.7619	1.428+15	7.557+13	-34.696	1.112-02	4.885	7.776+13	-34.727	1.144-02	4.854
.2200	4.5455	1.363+15	6.460+13	-34.526	1.043-02	4.954	6.629+13	-34.554	1.070-02	4.926
.2300	4.3478	1.303+15	5.554+13	-34.362	9.800-03	5.022	5.686+13	-34.387	1.003-02	4.996
.2400	4.1667	1.249+15	4.802+13	-34.204	9.226-03	5.087	4.905+13	-34.227	9.424-03	5.064
.2482	4.0290	1.208+15	4.274+13	-34.077	8.782-03	5.141	4.358+13	-34.098	8.955-03	5.120
.2557	3.9108	1.172+15	3.859+13	-33.966	8.416-03	5.187	3.931+13	-33.986	8.573-03	5.167
.2660	3.7594	1.127+15	3.364+13	-33.817	7.940-03	5.251	3.422+13	-33.836	8.076-03	5.232
.2770	3.6101	1.082+15	2.920+13	-33.663	7.473-03	5.316	2.966+13	-33.680	7.591-03	5.299
.2870	3.4843	1.045+15	2.578+13	-33.528	7.083-03	5.374	2.616+13	-33.544	7.188-03	5.359
.2970	3.3670	1.009+15	2.285+13	-33.397	6.723-03	5.431	2.316+13	-33.412	6.814-03	5.416
.3070	3.2573	9.765+14	2.032+13	-33.270	6.388-03	5.487	2.058+13	-33.284	6.470-03	5.473
.3170	3.1546	9.457+14	1.813+13	-33.146	6.077-03	5.541	1.835+13	-33.159	6.151-03	5.528
.3270	3.0581	9.168+14	1.623+13	-33.026	5.789-03	5.594	1.641+13	-33.038	5.853-03	5.582
.3370	2.9674	8.896+14	1.457+13	-32.909	5.519-03	5.645	1.472+13	-32.920	5.576-03	5.634
.3480	2.8736	8.615+14	1.299+13	-32.784	5.247-03	5.700	1.312+13	-32.795	5.300-03	5.689
.3600	2.7778	8.328+14	1.149+13	-32.651	4.967-03	5.760	1.160+13	-32.661	5.015-03	5.749
.3700	2.7027	8.102+14	1.089+13	-32.593	4.973-03	5.758	1.109+13	-32.612	5.064-03	5.739
.3800	2.6316	7.889+14	9.881+12	-32.487	4.759-03	5.806	1.005+13	-32.505	4.841-03	5.788
.3900	2.5641	7.687+14	8.982+12	-32.383	4.557-03	5.853	9.134+12	-32.402	4.634-03	5.835
.4000	2.5000	7.495+14	8.184+12	-32.282	4.368-03	5.899	8.315+12	-32.300	4.438-03	5.882
.4200	2.3810	7.138+14	6.837+12	-32.087	4.023-03	5.989	6.937+12	-32.103	4.082-03	5.973
.4400	2.2727	6.813+14	5.755+12	-31.900	3.716-03	6.075	5.832+12	-31.915	3.766-03	6.060
.4600	2.1739	6.517+14	4.879+12	-31.721	3.444-03	6.157	4.939+12	-31.734	3.486-03	6.144
.4800	2.0833	6.246+14	4.163+12	-31.549	3.199-03	6.237	4.211+12	-31.561	3.236-03	6.225
.5000	2.0000	5.996+14	3.574+12	-31.383	2.980-03	6.314	3.612+12	-31.394	3.012-03	6.303
.5200	1.9201	5.765+14	3.085+12	-31.223	2.783-03	6.389	3.116+12	-31.234	2.810-03	6.378
.5400	1.8519	5.552+14	2.677+12	-31.069	2.604-03	6.461	2.702+12	-31.079	2.628-03	6.451
.5600	1.7941	5.169+14	2.051+12	-30.780	2.301-03	6.595	2.068+12	-30.789	2.321-03	6.586
.6350	1.5748	4.721+14	1.455+12	-30.407	1.957-03	6.771	1.465+12	-30.415	1.970-03	6.764
.6650	1.5038	4.508+14	1.221+12	-30.217	1.801-03	6.861	1.229+12	-30.224	1.813-03	6.854
.6950	1.4388	4.314+14	1.032+12	-30.034	1.663-03	6.948	1.038+12	-30.040	1.672-03	6.942
.7550	1.3245	3.971+14	7.518+11	-29.690	1.429-03	7.112	7.556+11	-29.696	1.437-03	7.107
.8100	1.2346	3.701+14	5.741+11	-29.397	1.256-03	7.252	5.766+11	-29.402	1.262-03	7.247
.8350	1.1976	3.590+14	5.147+11	-29.279	1.197-03	7.305	5.175+11	-29.285	1.204-03	7.299
.9000	1.1111	3.331+14	3.855+11	-28.965	1.042-03	7.456	3.872+11	-28.970	1.046-03	7.451
1.0000	1.0000	2.998+14	2.564+11	-28.522	8.553-04	7.670	2.573+11	-28.526	8.583-04	7.666
1.2000	.8333	2.498+14	1.263+11	-27.754	6.067-04	8.043	1.266+11	-27.756	6.081-04	8.040
1.8000	.5556	1.666+14	2.582+10	-26.030	2.790-04	8.886	2.584+10	-26.031	2.793-04	8.885
2.7000	.3704	1.110+14	5.204+09	-24.291	1.265-04	9.744	5.202+09	-24.290	1.265-04	9.745
4.0000	.2500	7.495+13	1.090+09	-22.594	5.817-05	10.588	1.089+09	-22.593	5.812-05	10.589
5.0000	.2000	5.996+13	4.474+08	-21.627	3.731-05	11.070	4.469+08	-21.626	3.727-05	11.072
6.5000	.1538	4.612+13	1.565+08	-20.486	2.206-05	11.641	1.563+08	-20.485	2.203-05	11.643





TEFF = 50000

LOG G = 4.5

TEFF = 50000

LOG G = 5.0

LAMBDA (MICRON)	1/LAMBDA	NU	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)	F(LAMBDA)	M(LAMBDA)	F(NU)	M(NU)
.0232	43.1034	1.292+16	1.074+13	-32.578	1.928-05	11.787	6.015+12	-31.948	1.080-05	12.417
.0243	41.1523	1.234+16	2.215+13	-33.363	4.363-05	10.901	1.390+13	-32.858	2.738-05	11.406
.0255	39.2157	1.176+16	7.670+13	-34.712	1.664-04	9.447	4.712+13	-34.183	1.022-04	9.976
.0265	37.7358	1.131+16	2.172+14	-35.842	5.088-04	8.234	1.550+14	-35.476	3.631-04	8.600
.0277	36.1011	1.082+16	2.853+14	-36.138	7.302-04	7.841	2.103+14	-35.807	5.382-04	8.173
.0292	34.2466	1.027+16	4.181+14	-36.553	1.189-03	7.312	3.143+14	-36.243	8.939-04	7.622
.0308	32.4675	9.734+15	4.650+14	-36.669	1.471-03	7.081	4.094+14	-36.530	1.295-03	7.219
.0326	30.6748	9.196+15	1.168+15	-37.669	4.141-03	5.957	1.047+15	-37.550	3.712-03	6.076
.0344	29.0698	8.715+15	1.434+15	-37.891	5.660-03	5.618	1.316+15	-37.798	5.195-03	5.711
.0361	27.7008	8.305+15	1.532+15	-37.963	6.660-03	5.441	1.470+15	-37.918	6.390-03	5.486
.0380	26.3158	7.889+15	1.408+15	-37.872	6.782-03	5.422	1.390+15	-37.858	6.695-03	5.436
.0400	25.0000	7.495+15	1.659+15	-38.050	8.854-03	5.132	1.631+15	-38.031	8.705-03	5.151
.0420	23.8095	7.138+15	1.642+15	-38.038	9.662-03	5.037	1.616+15	-38.021	9.509-03	5.055
.0442	22.6244	6.783+15	1.621+15	-38.024	1.056-02	4.940	1.571+15	-37.990	1.024-02	4.975
.0467	21.4133	6.420+15	1.367+15	-37.839	9.944-03	5.006	1.332+15	-37.811	9.690-03	5.034
.0492	20.3252	6.093+15	1.393+15	-37.860	1.125-02	4.872	1.316+15	-37.798	1.063-02	4.934
.0515	19.4175	5.821+15	1.316+15	-37.798	1.164-02	4.835	1.280+15	-37.768	1.132-02	4.865
.0540	18.5185	5.552+15	1.210+15	-37.707	1.177-02	4.823	1.174+15	-37.674	1.142-02	4.856
.0565	17.6991	5.306+15	1.193+15	-37.692	1.270-02	4.740	1.144+15	-37.646	1.218-02	4.786
.0587	17.0358	5.107+15	1.131+15	-37.634	1.300-02	4.715	1.077+15	-37.581	1.238-02	4.768
.0612	16.3399	4.899+15	1.065+15	-37.568	1.331-02	4.690	1.010+15	-37.511	1.262-02	4.747
.0634	15.7729	4.729+15	9.550+14	-37.450	1.280-02	4.732	9.219+14	-37.412	1.236-02	4.770
.0671	14.9031	4.468+15	9.039+14	-37.390	1.358-02	4.668	8.562+14	-37.331	1.286-02	4.727
.0705	14.1844	4.252+15	8.089+14	-37.270	1.341-02	4.681	7.690+14	-37.215	1.275-02	4.736
.0736	13.5870	4.073+15	7.786+14	-37.228	1.407-02	4.629	7.387+14	-37.171	1.335-02	4.686
.0770	12.9870	3.893+15	7.272+14	-37.154	1.438-02	4.605	6.905+14	-37.098	1.366-02	4.662
.0810	12.3457	3.701+15	6.608+14	-37.050	1.446-02	4.599	6.293+14	-36.997	1.377-02	4.652
.0850	11.7647	3.527+15	5.956+14	-36.937	1.435-02	4.608	5.683+14	-36.886	1.370-02	4.659
.0890	11.2360	3.368+15	5.564+14	-36.863	1.470-02	4.582	5.318+14	-36.814	1.405-02	4.631
.0930	10.7527	3.224+15	7.399+14	-37.173	2.135-02	4.177	7.455+14	-37.181	2.151-02	4.169
.0975	10.2564	3.075+15	9.036+14	-37.390	2.865-02	3.857	1.012+15	-37.513	3.209-02	3.734
.1025	9.7561	2.925+15	7.837+14	-37.235	2.746-02	3.903	8.748+14	-37.355	3.066-02	3.784
.1075	9.3023	2.789+15	7.083+14	-37.126	2.730-02	3.909	7.911+14	-37.246	3.049-02	3.789
.1125	8.8889	2.665+15	6.197+14	-36.980	2.616-02	3.956	6.846+14	-37.089	2.890-02	3.848
.1175	8.5106	2.551+15	5.448+14	-36.841	2.509-02	4.001	5.958+14	-36.938	2.744-02	3.904
.1220	8.1967	2.457+15	4.676+14	-36.675	2.322-02	4.086	4.999+14	-36.747	2.482-02	4.013
.1270	7.8740	2.361+15	4.260+14	-36.574	2.292-02	4.100	4.600+14	-36.657	2.475-02	4.016
.1325	7.5472	2.263+15	3.791+14	-36.447	2.220-02	4.134	4.051+14	-36.519	2.372-02	4.062
.1375	7.2727	2.180+15	3.378+14	-36.322	2.130-02	4.179	3.583+14	-36.386	2.260-02	4.115
.1422	7.0323	2.108+15	3.042+14	-36.208	2.052-02	4.220	3.210+14	-36.266	2.165-02	4.161
.1482	6.7476	2.023+15	2.673+14	-36.067	1.958-02	4.270	2.807+14	-36.121	2.056-02	4.217
.1547	6.4641	1.938+15	2.153+14	-35.833	1.719-02	4.412	2.261+14	-35.886	1.805-02	4.359
.1598	6.2578	1.876+15	2.101+14	-35.806	1.790-02	4.368	2.187+14	-35.850	1.863-02	4.325
.1649	6.0643	1.818+15	1.899+14	-35.696	1.722-02	4.410	1.969+14	-35.736	1.786-02	4.370
.1730	5.7803	1.733+15	1.624+14	-35.526	1.621-02	4.475	1.676+14	-35.561	1.673-02	4.441
.1830	5.4645	1.638+15	1.350+14	-35.326	1.508-02	4.554	1.387+14	-35.355	1.549-02	4.525
.1930	5.1813	1.553+15	1.131+14	-35.134	1.405-02	4.631	1.157+14	-35.158	1.438-02	4.606
.2015	4.9628	1.488+15	9.788+13	-34.977	1.326-02	4.694	9.983+13	-34.998	1.352-02	4.673
.2100	4.7619	1.428+15	8.755+13	-34.856	1.288-02	4.725	8.992+13	-34.885	1.323-02	4.696
.2200	4.5455	1.363+15	7.468+13	-34.683	1.206-02	4.797	7.644+13	-34.708	1.234-02	4.772
.2300	4.3478	1.303+15	6.408+13	-34.517	1.131-02	4.867	6.541+13	-34.539	1.154-02	4.844
.2400	4.1667	1.249+15	5.530+13	-34.357	1.062-02	4.934	5.629+13	-34.376	1.082-02	4.915
.2482	4.0290	1.208+15	4.917+13	-34.229	1.010-02	4.989	4.996+13	-34.247	1.027-02	4.971
.2557	3.9108	1.172+15	4.432+13	-34.116	9.666-03	5.037	4.497+13	-34.132	9.808-03	5.021
.2660	3.7594	1.127+15	3.857+13	-33.966	9.103-03	5.102	3.907+13	-33.980	9.221-03	5.088
.2770	3.6101	1.082+15	3.342+13	-33.810	8.554-03	5.170	3.380+13	-33.822	8.651-03	5.157
.2870	3.4843	1.045+15	2.947+13	-33.673	8.097-03	5.229	2.976+13	-33.684	8.177-03	5.219
.2970	3.3670	1.009+15	2.608+13	-33.541	7.674-03	5.288	2.631+13	-33.550	7.741-03	5.278
.3070	3.2573	9.765+14	2.317+13	-33.412	7.284-03	5.344	2.334+13	-33.420	7.338-03	5.336
.3170	3.1546	9.457+14	2.065+13	-33.287	6.922-03	5.399	2.078+13	-33.294	6.965-03	5.393
.3270	3.0581	9.168+14	1.846+13	-33.166	6.584-03	5.454	1.856+13	-33.171	6.620-03	5.448
.3370	2.9674	8.896+14	1.656+13	-33.048	6.273-03	5.506	1.664+13	-33.053	6.304-03	5.501
.3460	2.8736	8.615+14	1.474+13	-32.921	5.954-03	5.563	1.480+13	-32.926	5.979-03	5.559
.3600	2.7778	8.328+14	1.303+13	-32.787	5.633-03	5.623	1.307+13	-32.791	5.650-03	5.620
.3700	2.7027	8.102+14	1.222+13	-32.718	5.580-03	5.633	1.238+13	-32.732	5.653-03	5.619
.3800	2.6316	7.889+14	1.108+13	-32.611	5.337-03	5.682	1.122+13	-32.625	5.404-03	5.668
.3900	2.5641	7.687+14	1.007+13	-32.508	5.109-03	5.729	1.018+13	-32.519	5.165-03	5.717
.4000	2.5000	7.495+14	9.167+12	-32.406	4.892-03	5.776	9.262+12	-32.417	4.943-03	5.765
.4200	2.3810	7.138+14	7.649+12	-32.209	4.501-03	5.867	7.716+12	-32.218	4.540-03	5.857
.4400	2.2727	6.813+14	6.433+12	-32.021	4.154-03	5.954	6.481+12	-32.029	4.185-03	5.946
.4600	2.1739	6.517+14	5.448+12	-31.841	3.845-03	6.038	5.483+12	-31.848	3.870-03	6.031
.4800	2.0833	6.246+14	4.645+12	-31.667	3.570-03	6.118	4.670+12	-31.673	3.589-03	6.113
.5000	2.0000	5.996+14	3.984+12	-31.501	3.322-03	6.196	4.002+12	-31.506	3.337-03	6.192
.5200	1.9231	5.765+14	3.437+12	-31.340	3.100-03	6.272	3.450+12	-31.345	3.112-03	6.267
.5400	1.8519	5.552+14	2.980+12	-31.186	2.899-03	6.345	2.989+12	-31.189	2.907-03	6.341
.5800	1.7241	5.169+14	2.280+12	-30.895	2.558-03	6.480	2.285+12	-30.897	2.564-03	6.478
.6350	1.5748	4.721+14	1.615+12	-30.520	2.172-03	6.658	1.616+12	-30.521	2.174-03	6.657
.6650	1.5038	4.508+14	1.354+12	-30.329	1.997-03	6.749	1.354+12	-30.329	1.997-03	6.749
.6950	1.4388	4.314+14	1.144+12	-30.146	1.843-03	6.836	1.144+12	-30.145	1.842-03	6.837
.7550	1.3245	3.971+14	8.323+11	-29.801	1.583-03	7.002	8.313+11	-29.799	1.581-03	7.003
.8100	1.2346	3.701+14	6.349+11	-29.507	1.389-03	7.143	6.338+11	-29.505	1.387-03	7.145
.8350	1.1976	3.590+14	5.682+11	-29.386	1.321-03	7.197	5.677+11	-29.385	1.320-03	7.198
.9000	1.1111	3.331+14	4.252+11	-29.071	1.149-03	7.349	4.245+11	-29.070	1.147-03	7.351
1.0000	1.0000	2.998+14	2.825+11	-28.628	9.423-04	7.565	2.818+11	-28.625	9.400-04	7.567
1.2000	.8333	2.498+14	1.389+11	-27.857	6.672-04	7.939	1.384+11	-27.853	6.648-04	7.943
1.8000	.5556	1.666+14	2.832+10	-26.130	3.061-04	8.785	2.818+10	-26.125	3.046-04	8.791
2.7000	.3704	1.110+14	5.696+09	-24.389	1.385-04	9.646	5.663+09	-24.383	1.377-04	9.653
4.0000	.2500	7.495+13	1.191+09	-22.690	6.356-05	10.492	1.184+09	-22.683	6.319-05	10.498
5.0000	.2000	5.996+13	4.883+08	-21.722	4.072-05	10.975	4.852+08	-21.715	4.046-05	10.982
6.5000	.1538	4.612+13	1.706+08	-20.580	2.404-05	11.548	1.695+08	-20.573	2.389-05	11.555

Table 3. Colors and bolometric corrections.

Here we present for each model the bolometric correction defined by equations (37) to (39), the V-filter ratio  $R^V$  defined by equation (34), and the magnitude  $V^n$  defined by equations (28) and (17), i. e.,

$$V^n = -2.5 \log E_V^n = -2.5 \log \frac{\int F_\lambda S_V(\lambda) d\lambda}{\int S_V(\lambda) d\lambda} .$$

This normalized magnitude for the V filter is comparable to the monochromatic magnitudes  $M_\lambda$  given in Table 2. The theoretical Telescope colors  $U_i - V^n$ ,  $i = 1, 2, 3, 4$ , are determined according to

$$U_i - V^n = -2.5 \log \frac{E_i^n}{E_V^n}$$

where  $E_i^n$  is given in terms of our computed flux  $F_\lambda$  and the Telescope sensitivity function  $S_i(\lambda)$  according to

$$E_i^n = \frac{\int F_\lambda S_i(\lambda) d\lambda}{\int S_i(\lambda) d\lambda} .$$

As described in Section 4.4, we determine B - V and U - B colors according to the equations of Matthews and Sandage (1963). We also list the values of

$$4 \log \frac{T_{\text{eff}}}{T_{\text{eff}\odot}} = \log \frac{L}{L_\odot} - 2 \log \frac{R}{R_\odot} ,$$

which is convenient for constructing HR diagrams. A knowledge of  $R/R_{\odot}$  directly gives the luminosity ratio  $L/L_{\odot}$ . If the mass ratio  $m/m_{\odot}$  is known, the stellar radius is given by

$$-2 \log \frac{R}{R_{\odot}} = \log g - 4.44 - \log \frac{m}{m_{\odot}} \quad .$$

T EFF	LOG G	B.C.(V)	RV	V	LOG(L/LO) -2 LOG(R/RO)	B -V	U -B	U1-V	U2-V	U3-V	U4-V
8000	2.00	0.000	.133	-27.620	.565	.018	.120	1.167	1.158	1.654	2.006
8000	2.50	.001	.133	-27.620	.565	.033	.121	1.087	1.088	1.649	2.013
8000	3.00	.008	.132	-27.613	.565	.057	.136	.986	.995	1.614	1.986
8000	3.50	.018	.131	-27.602	.565	.084	.112	.875	.900	1.566	1.940
8000	4.00	.033	.129	-27.588	.565	.116	.072	.760	.808	1.506	1.878
8000	4.50	.049	.127	-27.571	.565	.135	.021	.642	.724	1.525	1.919
8500	2.00	.082	.123	-27.801	.670	-.037	-.009	.739	.667	.687	.875
8500	2.50	.078	.124	-27.806	.670	-.032	.017	.709	.647	.721	.947
8500	3.00	.075	.124	-27.809	.670	-.018	.032	.650	.596	.725	.988
8500	3.50	.079	.124	-27.805	.670	.004	.031	.578	.533	.724	1.019
8500	4.00	.087	.123	-27.797	.670	.030	.025	.495	.465	.709	1.025
8500	4.50	.098	.121	-27.786	.670	.057	-.025	.401	.391	.671	.996
9000	2.00	.183	.112	-27.949	.769	-.066	-.146	.351	.239	.042	.128
9000	2.50	.174	.113	-27.958	.769	-.073	-.106	.363	.256	.063	.161
9000	3.00	.169	.114	-27.963	.769	-.067	-.085	.333	.236	.079	.201
9000	3.50	.166	.114	-27.965	.769	-.052	-.067	.291	.201	.088	.247
9000	4.00	.169	.114	-27.963	.769	-.033	-.072	.239	.158	.097	.297
9000	4.50	.173	.113	-27.959	.769	-.008	-.093	.171	.103	.083	.319
9500	2.00	.287	.102	-28.080	.863	-.081	-.276	.013	-.123	-.399	-.349
9500	2.50	.279	.103	-28.088	.863	-.099	-.226	.063	-.077	-.395	-.353
9500	3.00	.273	.103	-28.094	.863	-.100	-.201	.056	-.077	-.394	-.347
9500	3.50	.269	.104	-28.097	.863	-.093	-.181	.035	-.093	-.392	-.327
9500	4.00	.268	.104	-28.099	.863	-.079	-.169	.005	-.117	-.383	-.288
9500	4.50	.267	.104	-28.099	.863	-.061	-.183	-.043	-.155	-.383	-.252
10000	2.00	.392	.0925	-28.197	.952	-.092	-.370	-.267	-.419	-.736	-.702
10000	2.50	.382	.0934	-28.208	.952	-.113	-.327	-.208	-.368	-.741	-.720
10000	3.00	.377	.0938	-28.212	.952	-.120	-.310	-.190	-.350	-.745	-.726
10000	3.50	.375	.0940	-28.215	.952	-.119	-.293	-.196	-.353	-.750	-.726
10000	4.00	.372	.0943	-28.217	.952	-.112	-.279	-.216	-.369	-.759	-.718
10000	4.50	.370	.0944	-28.219	.952	-.099	-.285	-.243	-.390	-.755	-.698
11000	2.00	.598	.0765	-28.405	1.118	-.110	-.510	-.708	-.884	-1.257	-1.242
11000	2.50	.587	.0773	-28.416	1.118	-.133	-.470	-.633	-.824	-1.263	-1.264
11000	3.00	.583	.0776	-28.421	1.118	-.145	-.449	-.601	-.795	-1.270	-1.285
11000	3.50	.582	.0777	-28.421	1.118	-.150	-.437	-.586	-.784	-1.283	-1.303
11000	4.00	.581	.0778	-28.423	1.118	-.150	-.433	-.590	-.788	-1.295	-1.312
11000	4.50	.579	.0779	-28.425	1.118	-.145	-.431	-.598	-.796	-1.297	-1.304
12000	2.00	.798	.0637	-28.583	1.269	-.126	-.622	-1.044	-1.241	-1.660	-1.658
12000	2.50	.785	.0644	-28.596	1.269	-.150	-.580	-.961	-1.172	-1.652	-1.674
12000	3.00	.781	.0647	-28.600	1.269	-.162	-.559	-.920	-1.141	-1.666	-1.702
12000	3.50	.780	.0647	-28.601	1.269	-.169	-.546	-.901	-1.128	-1.680	-1.723
12000	4.00	.780	.0647	-28.601	1.269	-.171	-.541	-.897	-1.126	-1.685	-1.731
12000	4.50	.780	.0647	-28.601	1.269	-.172	-.538	-.899	-1.129	-1.699	-1.742
13000	2.00	.991	.0533	-28.738	1.408	-.140	-.706	-1.314	-1.527	-1.984	-1.997
13000	2.50	.977	.0540	-28.752	1.408	-.165	-.662	-1.225	-1.458	-1.990	-2.023
13000	3.00	.973	.0542	-28.756	1.408	-.178	-.640	-1.179	-1.423	-1.991	-2.040
13000	3.50	.973	.0542	-28.756	1.408	-.185	-.628	-1.155	-1.405	-2.002	-2.062
13000	4.00	.973	.0542	-28.756	1.408	-.188	-.622	-1.145	-1.399	-2.014	-2.078
13000	4.50	.973	.0542	-28.755	1.408	-.190	-.618	-1.142	-1.399	-2.025	-2.089

T EFF	LOG G	B.C. (V)	RV	V	LOG(L/LO) -2 LOG(R/RO)	B -V	U -B	U1-V	U2-V	U3-V	U4-V
14000	2.00	1.173	.0451	-28.877	1.537	-.151	-.777	-1.535	-1.768	-2.262	-2.286
14000	2.50	1.159	.0456	-28.891	1.537	-.179	-.727	-1.440	-1.694	-2.266	-2.312
14000	3.00	1.157	.0457	-28.893	1.537	-.193	-.703	-1.389	-1.654	-2.271	-2.334
14000	3.50	1.158	.0457	-28.893	1.537	-.200	-.690	-1.362	-1.634	-2.280	-2.355
14000	4.00	1.159	.0457	-28.892	1.537	-.203	-.684	-1.349	-1.625	-2.287	-2.368
14000	4.50	1.159	.0457	-28.892	1.537	-.205	-.680	-1.344	-1.624	-2.298	-2.380
15000	2.00	1.345	.0385	-29.005	1.657	-.160	-.842	-1.723	-1.973	-2.507	-2.542
15000	2.50	1.331	.0390	-29.019	1.657	-.191	-.782	-1.619	-1.894	-2.508	-2.565
15000	3.00	1.331	.0390	-29.019	1.657	-.206	-.756	-1.565	-1.851	-2.511	-2.588
15000	3.50	1.333	.0389	-29.017	1.657	-.213	-.742	-1.535	-1.828	-2.518	-2.606
15000	4.00	1.335	.0388	-29.016	1.657	-.217	-.735	-1.520	-1.817	-2.524	-2.619
15000	4.50	1.335	.0388	-29.015	1.657	-.219	-.730	-1.513	-1.814	-2.532	-2.629
16000	2.00	1.510	.0331	-29.121	1.769	-.166	-.904	-1.888	-2.154	-2.721	-2.767
16000	2.50	1.493	.0336	-29.138	1.769	-.202	-.831	-1.773	-2.067	-2.719	-2.786
16000	3.00	1.495	.0335	-29.135	1.769	-.217	-.801	-1.715	-2.021	-2.722	-2.809
16000	3.50	1.500	.0334	-29.131	1.769	-.225	-.786	-1.683	-1.995	-2.726	-2.822
16000	4.00	1.502	.0333	-29.128	1.769	-.229	-.778	-1.666	-1.983	-2.731	-2.834
16000	4.50	1.504	.0332	-29.127	1.769	-.231	-.774	-1.658	-1.978	-2.738	-2.843
18000	3.00	1.794	.0254	-29.348	1.973	-.237	-.882	-1.964	-2.305	-3.077	-3.180
18000	3.50	1.803	.0252	-29.339	1.973	-.245	-.862	-1.927	-2.275	-3.080	-3.197
18000	4.00	1.809	.0251	-29.333	1.973	-.250	-.852	-1.906	-2.259	-3.083	-3.208
18000	4.50	1.813	.0250	-29.329	1.973	-.252	-.846	-1.896	-2.252	-3.086	-3.216
20000	3.00	2.057	.0200	-29.542	2.156	-.254	-.949	-2.167	-2.538	-3.367	-3.484
20000	3.50	2.073	.0197	-29.527	2.156	-.263	-.926	-2.124	-2.504	-3.371	-3.505
20000	4.00	2.083	.0195	-29.517	2.156	-.268	-.913	-2.099	-2.484	-3.372	-3.516
20000	4.50	2.088	.0194	-29.511	2.156	-.270	-.906	-2.087	-2.475	-3.376	-3.527
25000	3.50	2.620	.0119	-29.949	2.544	-.298	-1.049	-2.494	-2.937	-3.908	-4.074
25000	4.00	2.644	.0116	-29.924	2.544	-.303	-1.031	-2.463	-2.913	-3.919	-4.100
25000	4.50	2.659	.0115	-29.910	2.544	-.306	-1.021	-2.444	-2.898	-3.926	-4.115
25000	5.00	2.667	.0114	-29.902	2.544	-.308	-1.016	-2.435	-2.891	-3.933	-4.127
30000	3.50	2.987	.00848	-30.374	2.861	-.318	-1.151	-2.753	-3.216	-4.199	-4.377
30000	4.00	3.047	.00802	-30.313	2.861	-.332	-1.123	-2.729	-3.218	-4.265	-4.465
30000	4.50	3.082	.00777	-30.279	2.861	-.335	-1.109	-2.707	-3.207	-4.299	-4.511
30000	5.00	3.100	.00764	-30.261	2.861	-.337	-1.101	-2.695	-3.201	-4.317	-4.536
35000	3.50	3.359	.00602	-30.672	3.129	-.307	-1.209	-2.837	-3.292	-4.266	-4.447
35000	4.00	3.361	.00601	-30.670	3.129	-.334	-1.191	-2.874	-3.355	-4.387	-4.587
35000	4.50	3.388	.00586	-30.642	3.129	-.348	-1.181	-2.882	-3.385	-4.452	-4.668
35000	5.00	3.412	.00573	-30.618	3.129	-.354	-1.173	-2.880	-3.398	-4.507	-4.731
40000	4.50	3.740	.00424	-30.870	3.361	-.344	-1.217	-2.945	-3.443	-4.506	-4.729
40000	5.00	3.737	.00425	-30.873	3.361	-.351	-1.213	-2.957	-3.466	-4.560	-4.788
45000	4.50	4.122	.00298	-30.999	3.565	-.348	-1.233	-2.988	-3.495	-4.585	-4.814
45000	5.00	4.112	.00301	-31.009	3.565	-.353	-1.232	-2.999	-3.514	-4.627	-4.864
50000	4.50	4.464	.00218	-31.115	3.748	-.353	-1.245	-3.023	-3.542	-4.657	-4.891
50000	5.00	4.460	.00218	-31.119	3.748	-.359	-1.244	-3.037	-3.563	-4.702	-4.947

Table 4. Balmer line profiles.

In this final table we give the residual flux profiles for the first four Balmer lines,  $H_\alpha$ ,  $H_\beta$ ,  $H_\gamma$  and  $H_\delta$ , centered at 6564.7, 4862.7, 4341.7, and 4102.9 Å, respectively. The values of  $T_{\text{eff}}$  and  $\log g$  are given in the first two columns, and the equivalent width of the line (in Å) appears in column 3. Then we give the residual flux in units of 1000 (so that 160 represents 0.160) as a function of  $\Delta\lambda$  (Å) over the range 0 to 50 Å. The values of  $F_\nu$  (in  $\text{ergs cm}^{-2} \text{sec}^{-1} \text{Hz}^{-1}$ , as in Table 2) at -100 Å and +100 Å from the line center are given in the last two columns. The residual flux is expressed relative to the straight line joining the two points at  $\pm 100$  Å.

		H(Delta) RESIDUAL FLUX(X1000) VS. Delta LAMBDA IN ANGSTROMS																				LAMBDA = 4102.9	
T EFF	LOG C	WIDTH (A)	C.C	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
8000	2.5	9.767	83	116	222	257	285	310	365	416	504	583	717	812	873	937	963	981	989	996	1.405-04	1.369-04	
8000	2.5	12.583	87	120	216	248	272	294	342	387	461	527	638	725	795	884	931	963	978	993	1.396-04	1.360-04	
8000	3.0	15.311	91	126	216	243	266	287	332	371	439	496	594	672	734	827	888	937	961	989	1.367-04	1.334-04	
8000	3.5	17.749	99	139	217	246	268	287	329	365	429	483	571	640	696	786	847	907	940	983	1.323-04	1.295-04	
8000	4.0	19.760	108	152	222	250	272	291	332	367	428	477	560	625	676	759	818	879	919	975	1.271-04	1.251-04	
8000	4.5	21.144	120	166	230	257	279	298	339	374	432	481	559	620	670	746	801	861	902	966	1.213-04	1.201-04	
8500	2.5	7.748	101	137	243	278	305	332	393	449	559	658	801	881	925	963	980	989	993	998	1.674-04	1.629-04	
8500	2.5	10.765	101	137	229	257	282	303	351	396	477	551	681	780	847	920	954	977	986	995	1.703-04	1.650-04	
8500	3.0	13.962	104	142	222	248	269	288	330	367	433	493	600	689	760	859	914	954	972	992	1.701-04	1.648-04	
8500	3.5	17.228	108	150	221	245	262	279	317	351	412	462	553	629	693	794	861	920	951	986	1.674-04	1.625-04	
8500	4.0	20.320	116	158	222	245	262	278	314	345	398	446	527	596	652	743	812	881	922	977	1.629-04	1.587-04	
8500	4.5	22.855	125	171	225	248	266	282	316	346	397	442	516	579	632	714	780	847	893	964	1.567-04	1.535-04	
9000	2.5	6.128	133	168	269	310	342	371	444	513	646	746	868	925	954	978	987	993	995	998	1.922-04	1.871-04	
9000	2.5	8.949	128	161	248	278	301	323	375	425	518	608	750	839	894	948	971	984	990	996	1.985-04	1.920-04	
9000	3.0	12.086	128	163	238	263	282	301	342	381	452	521	640	736	809	896	939	967	981	995	2.004-04	1.934-04	
9000	3.5	15.602	131	166	232	255	272	288	323	355	414	470	567	652	722	824	888	939	963	989	2.000-04	1.931-04	
9000	4.0	19.352	131	171	230	252	268	282	314	342	393	439	521	594	655	756	827	896	934	981	1.973-04	1.908-04	
9000	4.5	22.910	139	182	232	252	268	281	310	336	381	423	496	560	617	705	774	850	899	969	1.927-04	1.871-04	
9500	2.5	5.047	161	198	304	352	387	423	507	588	721	809	905	948	967	984	992	995	996	998	2.170-04	2.111-04	
9500	2.5	7.566	152	187	272	304	330	352	410	467	576	670	806	882	923	963	978	989	993	998	2.261-04	2.184-04	
9500	3.0	10.453	150	184	256	282	303	320	364	404	484	560	690	788	853	923	955	977	986	995	2.299-04	2.215-04	
9500	3.5	13.859	150	184	248	269	287	303	336	369	430	489	596	687	760	861	914	954	972	992	2.311-04	2.224-04	
9500	4.0	17.762	147	187	241	262	278	291	320	349	398	445	532	609	675	783	853	917	949	986	2.303-04	2.217-04	
9500	4.5	21.908	152	192	240	259	273	287	314	337	381	420	493	559	617	713	789	864	911	975	2.273-04	2.193-04	
10000	2.5	4.372	189	230	339	393	432	471	562	644	766	846	925	958	975	987	992	995	998	998	2.433-04	2.365-04	
10000	2.5	6.589	176	214	301	336	362	387	451	515	631	722	842	905	940	971	984	992	995	998	2.539-04	2.451-04	
10000	3.0	9.162	171	206	279	305	326	345	391	435	524	606	739	827	882	940	966	983	989	996	2.591-04	2.492-04	
10000	3.5	12.256	169	205	268	288	305	320	356	390	457	521	638	731	803	890	934	966	980	993	2.615-04	2.510-04	
10000	4.0	15.982	171	206	259	278	292	305	335	362	413	462	556	640	710	817	882	934	960	989	2.622-04	2.516-04	
10000	4.5	20.278	169	206	253	272	285	297	323	346	388	429	504	571	634	736	812	885	928	980	2.609-04	2.506-04	
11000	2.5	3.507	248	291	397	462	507	548	643	717	824	888	948	972	983	992	995	996	998	998	2.989-04	2.899-04	
11000	2.5	5.415	227	268	351	391	422	451	522	589	701	782	882	931	957	978	987	993	995	998	3.127-04	3.012-04	
11000	3.0	7.559	216	256	324	352	374	394	448	501	597	678	798	870	914	957	975	986	992	998	3.198-04	3.068-04	
11000	3.5	10.106	211	248	307	329	345	361	400	441	516	588	707	794	853	920	954	975	986	995	3.235-04	3.095-04	
11000	4.0	13.165	208	246	297	314	327	339	371	400	460	515	620	707	775	867	917	955	974	992	3.251-04	3.107-04	
11000	4.5	16.923	208	246	288	304	316	326	352	375	419	464	547	625	690	795	862	920	952	986	3.257-04	3.114-04	
12000	2.5	2.899	298	337	448	525	571	611	702	771	864	914	961	978	987	993	996	998	998	998	3.574-04	3.458-04	
12000	2.5	4.635	272	308	397	445	477	507	579	644	746	821	905	946	966	984	990	995	996	998	3.747-04	3.600-04	
12000	3.0	6.551	259	294	368	400	423	445	501	554	649	725	832	893	931	966	981	989	993	998	3.834-04	3.669-04	
12000	3.5	8.756	252	287	348	371	390	407	449	492	568	640	751	829	879	937	963	981	989	996	3.879-04	3.701-04	
12000	4.0	11.373	248	282	333	352	367	381	413	446	507	567	672	754	815	893	934	964	978	993	3.900-04	3.718-04	
12000	4.5	14.562	245	281	323	339	352	362	386	413	462	510	597	675	740	835	891	939	963	989	3.913-04	3.728-04	
13000	2.5	2.426	337	380	493	577	623	663	748	812	893	935	972	984	990	995	996	998	998	998	4.183-04	4.038-04	
13000	2.5	4.053	307	345	439	490	521	551	623	684	782	849	922	955	972	986	992	995	996	998	4.394-04	4.210-04	
13000	3.0	5.812	291	329	407	442	465	489	542	594	685	759	856	911	942	972	984	992	995	998	4.495-04	4.290-04	
13000	3.5	7.814	285	320	387	413	432	448	490	532	609	676	782	852	897	946	969	984	989	996	4.545-04	4.327-04	
13000	4.0	10.163	279	316	371	393	407	420	454	486	548	608	707	783	841	908	945	971	983	995	4.572-04	4.347-04	
13000	4.5	12.988	278	313	358	377	390	400	426	451	501	548	638	713	772	859	908	949	969	992	4.589-04	4.360-04	
14000	2.5	2.016	382	423	533	623	670	710	792	850	920	952	980	989	993	996	998	998	998	1000	4.816-04	4.640-04	

		H(DELTA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 4102.9	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
14000	2.5	3.581	342	381	473	525	556	588	656	717	810	870	935	963	978	989	993	996	998	998	5.072-04	4.848-04	
14000	3.0	5.233	324	362	439	476	499	521	576	628	716	783	875	922	951	975	986	992	995	998	5.181-04	4.932-04	
14000	3.5	7.106	316	352	419	445	464	480	522	562	638	704	803	868	910	954	972	986	992	996	5.235-04	4.971-04	
14000	4.0	9.261	311	348	433	425	439	452	484	516	579	637	734	806	858	920	952	975	984	995	5.263-04	4.992-04	
14000	4.5	11.843	308	345	391	409	420	432	456	483	532	579	667	739	797	875	920	955	974	992	5.284-04	5.008-04	
15000	2.0	1.636	439	473	571	669	716	757	835	887	943	967	986	992	995	998	998	998	998	1000	5.469-04	5.260-04	
15000	2.5	3.167	385	419	501	556	588	618	690	748	835	890	946	971	981	992	995	996	998	998	5.784-04	5.516-04	
15000	3.0	4.754	364	396	467	504	527	550	603	655	740	806	890	934	957	980	987	993	995	998	5.902-04	5.604-04	
15000	3.5	6.502	352	384	445	471	490	507	550	589	664	728	824	884	920	960	977	987	992	998	5.954-04	5.639-04	
15000	4.0	8.529	346	378	429	451	464	478	512	544	605	661	756	824	871	928	957	978	986	995	5.981-04	5.659-04	
15000	4.5	10.924	343	375	416	433	445	457	483	509	557	606	690	760	815	888	928	960	977	993	6.004-04	5.676-04	
16000	2.0	1.278	500	525	611	721	769	809	879	922	963	978	992	995	996	998	998	998	1000	1000	6.129-04	5.888-04	
16000	2.5	2.795	429	455	525	585	618	649	721	777	859	908	957	977	986	992	995	998	998	998	6.535-04	6.220-04	
16000	3.0	4.320	401	428	490	527	551	574	629	679	763	827	902	943	963	983	989	995	996	998	6.658-04	6.309-04	
16000	3.5	5.994	387	413	467	494	513	530	573	614	687	750	839	894	929	964	980	989	993	998	6.704-04	6.337-04	
16000	4.0	7.908	378	404	451	473	487	501	535	567	628	684	774	839	884	937	961	981	987	996	6.728-04	6.352-04	
16000	4.5	10.153	374	400	436	455	467	480	506	532	582	629	711	778	830	897	937	966	980	993	6.750-04	6.366-04	
18000	3.0	3.578	454	477	533	574	600	623	678	728	806	861	926	957	972	986	992	995	996	998	8.297-04	7.831-04	
18000	3.5	5.123	435	458	506	536	554	574	617	657	728	786	867	917	945	972	984	992	995	998	8.322-04	7.834-04	
18000	4.0	6.866	422	445	487	512	527	542	576	608	667	721	806	864	903	949	969	984	990	996	8.326-04	7.826-04	
18000	4.5	8.890	414	439	474	493	507	518	545	571	620	666	745	809	855	916	948	972	983	995	8.336-04	7.830-04	
20000	3.0	2.994	487	510	571	617	643	667	721	768	841	890	943	967	980	990	995	996	998	998	1.013-03	9.525-04	
20000	3.5	4.421	464	487	541	574	594	611	655	693	763	818	890	931	955	978	987	992	995	998	1.011-03	9.482-04	
20000	4.0	5.996	451	476	521	547	562	577	611	643	702	754	832	887	922	958	975	986	992	998	1.008-03	9.443-04	
20000	4.5	7.849	441	465	504	527	541	553	579	605	652	699	774	833	876	929	957	977	986	995	1.006-03	9.416-04	
25000	3.5	3.181	518	533	583	635	663	684	731	769	832	876	931	960	974	986	992	995	998	998	1.558-03	1.451-03	
25000	4.0	4.524	497	513	556	597	620	638	678	711	768	815	882	922	948	974	984	992	995	998	1.534-03	1.426-03	
25000	4.5	6.032	483	501	536	571	589	606	640	669	719	763	832	881	914	952	972	984	990	996	1.518-03	1.410-03	
25000	5.0	7.799	471	490	518	547	565	580	611	637	681	719	783	833	873	923	952	974	984	995	1.510-03	1.402-03	
30000	3.5	1.926	612	626	664	717	750	772	818	853	903	935	969	983	995	996	996	998	998	998	2.359-03	2.189-03	
30000	4.0	3.362	554	568	600	641	667	689	731	768	824	867	920	951	967	984	990	995	996	998	2.272-03	2.100-03	
30000	4.5	4.750	533	547	571	605	626	643	682	716	769	812	873	914	940	967	981	989	993	998	2.212-03	2.043-03	
30000	5.0	6.290	518	533	553	579	597	612	647	676	725	765	827	871	903	945	966	981	989	996	2.181-03	2.012-03	
35000	3.5	.714	800	810	838	873	896	908	932	949	972	983	992	995	996	998	998	998	998	1000	3.060-03	2.846-03	
35000	4.0	1.873	685	696	719	753	775	794	829	859	902	931	964	980	986	993	995	998	998	998	3.163-03	2.923-03	
35000	4.5	3.170	638	650	667	696	713	728	760	789	835	870	920	949	966	983	989	995	996	998	3.139-03	2.892-03	
35000	5.0	4.532	617	628	640	664	678	690	719	743	786	821	875	911	935	966	980	989	993	998	3.093-03	2.845-03	
40000	4.5	1.830	754	765	778	803	818	829	853	871	903	926	957	974	983	992	995	996	998	998	3.851-03	3.551-03	
40000	5.0	2.782	725	734	745	765	778	789	809	827	859	887	925	949	966	981	989	995	996	998	3.898-03	3.587-03	
45000	4.5	1.455	792	801	814	836	850	861	879	896	922	943	967	981	987	993	996	998	998	998	4.361-03	4.017-03	
45000	5.0	2.077	776	788	797	817	829	838	855	870	894	914	945	963	975	987	992	995	998	998	4.431-03	4.076-03	
50000	4.5	1.257	812	821	832	853	867	876	893	908	934	951	974	984	989	995	996	998	998	1000	4.886-03	4.495-03	
50000	5.0	1.836	797	804	812	832	844	853	868	882	905	925	952	969	978	989	993	996	998	998	4.936-03	4.534-03	



				F(GALAXIA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																		LAMBDA = 4341.7	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
8000	2.3	9.668	91	121	240	285	313	337	393	442	527	600	722	809	868	932	960	980	987	995	1.362-04	1.326-04	
8000	2.5	12.273	93	126	238	276	301	323	371	414	489	550	655	734	798	882	928	961	977	993	1.352-04	1.317-04	
8000	3.0	14.758	99	133	238	273	297	317	362	400	467	524	617	689	746	832	888	937	961	989	1.327-04	1.296-04	
8000	3.5	16.941	105	142	243	275	298	317	359	397	458	510	596	661	714	797	853	910	942	983	1.289-04	1.264-04	
8000	4.0	18.711	115	155	248	279	301	321	362	397	458	506	585	647	696	774	829	885	922	975	1.246-04	1.227-04	
8000	4.5	19.926	126	169	256	287	310	329	366	403	461	510	585	643	690	763	815	870	908	969	1.197-04	1.184-04	
8500	2.0	7.780	111	142	257	305	333	358	416	470	571	660	795	873	919	960	978	989	992	998	1.620-04	1.575-04	
8500	2.5	10.643	109	142	250	288	310	332	378	423	501	568	687	778	844	917	952	975	984	995	1.640-04	1.590-04	
8500	3.0	13.656	113	147	246	278	300	317	359	396	461	518	618	699	765	858	911	952	972	992	1.638-04	1.588-04	
8500	3.5	16.682	116	153	246	275	294	311	349	381	441	490	577	647	707	798	861	919	949	986	1.615-04	1.569-04	
8500	4.0	19.486	121	163	248	275	292	310	345	375	429	476	553	617	670	756	818	882	922	978	1.577-04	1.537-04	
8500	4.5	21.750	131	176	253	278	297	313	346	375	426	471	542	602	652	731	791	856	899	966	1.526-04	1.494-04	
9000	2.0	6.191	142	176	282	336	367	394	462	527	646	742	861	920	949	975	986	992	995	998	1.861-04	1.807-04	
9000	2.5	8.913	136	171	268	307	330	352	401	448	535	615	748	835	888	945	967	984	989	996	1.908-04	1.844-04	
9000	3.0	11.915	139	173	262	294	314	332	372	410	477	541	649	739	807	893	935	966	980	993	1.921-04	1.855-04	
9000	3.5	15.250	139	174	259	285	304	320	355	387	442	494	585	664	728	824	887	937	961	989	1.917-04	1.852-04	
9000	4.0	18.748	137	179	257	282	298	314	345	372	423	467	545	614	670	763	830	896	934	981	1.895-04	1.834-04	
9000	4.5	22.010	144	187	259	282	298	313	342	368	413	452	522	583	635	719	783	853	900	969	1.857-04	1.804-04	
9500	2.0	5.097	173	206	314	378	410	442	521	594	717	803	899	943	964	984	990	995	996	998	2.100-04	2.039-04	
9500	2.5	7.549	163	197	291	333	358	381	435	487	585	673	801	876	919	960	978	989	992	998	2.169-04	2.095-04	
9500	3.0	10.343	161	195	279	313	333	351	393	432	506	576	696	786	850	920	952	975	986	995	2.198-04	2.117-04	
9500	3.5	13.624	160	195	273	301	319	333	366	400	458	512	609	693	763	858	911	952	972	992	2.207-04	2.125-04	
9500	4.0	17.340	155	195	269	294	310	323	352	380	428	473	553	625	685	786	853	914	948	986	2.200-04	2.120-04	
9500	4.5	21.203	158	200	269	291	305	319	346	369	412	449	518	580	634	725	795	865	911	974	2.175-04	2.100-04	
10000	2.0	4.415	200	235	346	416	454	487	573	647	763	841	920	955	972	986	992	995	996	998	2.352-04	2.282-04	
10000	2.5	6.565	187	222	317	365	390	413	473	530	637	724	838	902	937	969	983	990	995	998	2.434-04	2.348-04	
10000	3.0	9.066	182	216	303	336	356	375	417	461	542	617	742	826	879	937	963	981	989	996	2.473-04	2.379-04	
10000	3.5	12.067	179	216	294	320	337	352	387	419	480	539	646	734	801	887	931	963	978	993	2.490-04	2.392-04	
10000	4.0	15.056	184	216	287	310	326	339	367	394	442	489	574	652	716	815	879	931	958	989	2.495-04	2.396-04	
10000	4.5	19.740	176	216	282	304	317	330	355	378	419	458	527	591	647	742	815	885	926	978	2.484-04	2.389-04	
11000	2.0	3.538	256	298	400	483	524	562	644	719	821	882	943	969	981	990	995	996	998	998	2.881-04	2.790-04	
11000	2.5	5.382	237	275	367	419	446	474	541	602	704	783	879	928	954	978	987	992	995	998	2.989-04	2.877-04	
11000	3.0	7.458	227	265	346	382	403	423	473	521	611	685	800	868	911	955	974	986	992	996	3.043-04	2.919-04	
11000	3.5	9.926	221	259	333	361	377	391	429	467	536	603	713	795	852	919	952	975	984	995	3.069-04	2.938-04	
11000	4.0	12.899	219	256	324	346	361	372	401	429	484	538	632	713	777	865	914	954	972	992	3.079-04	2.946-04	
11000	4.5	16.536	216	256	317	336	349	359	384	406	449	490	568	638	699	797	861	919	951	986	3.084-04	2.951-04	
12000	2.0	2.927	307	343	446	544	585	623	705	771	859	911	958	978	986	993	995	998	998	998	3.436-04	3.319-04	
12000	2.5	4.599	282	317	409	471	501	528	594	655	750	821	902	943	963	983	989	995	996	998	3.572-04	3.430-04	
12000	3.0	6.441	272	305	387	429	451	473	524	574	660	731	832	893	928	964	980	989	993	998	3.637-04	3.480-04	
12000	3.5	8.569	263	298	371	403	420	436	477	515	588	652	757	830	879	934	961	980	987	996	3.668-04	3.504-04	
12000	4.0	11.108	259	294	362	385	400	413	445	474	532	586	682	760	817	891	934	963	978	993	3.683-04	3.515-04	
12000	4.5	14.196	255	291	352	372	384	396	420	444	490	533	614	687	746	835	890	937	961	989	3.691-04	3.521-04	
13000	2.0	2.456	345	382	490	592	635	672	751	810	890	931	969	984	989	995	996	998	998	998	4.010-04	3.866-04	
13000	2.5	4.018	317	352	446	515	545	571	637	693	783	847	920	954	971	986	992	995	996	998	4.176-04	4.000-04	
13000	3.0	5.703	303	336	423	471	493	515	565	612	696	763	856	910	940	971	983	990	995	998	4.251-04	4.059-04	
13000	3.5	7.631	295	330	409	445	461	478	518	554	626	689	786	853	897	945	967	983	989	996	4.285-04	4.084-04	
13000	4.0	9.894	291	326	397	425	439	452	483	513	571	625	716	789	841	908	943	969	981	995	4.304-04	4.097-04	
13000	4.5	12.627	288	323	387	410	423	433	458	481	527	571	652	722	778	859	908	949	969	992	4.314-04	4.106-04	
14000	2.0	2.052	368	425	527	635	678	714	792	847	916	949	978	987	992	996	998	998	1000		4.606-04	4.432-04	

		H(GAMMA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 4341.7	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
14000	2.5	3.551	352	387	480	548	575	606	670	725	812	870	934	961	977	989	993	996	998	998	4.806-04	4.593-04	
14000	3.0	5.135	335	366	455	504	527	547	597	643	725	789	875	922	949	975	986	992	995	998	4.885-04	4.653-04	
14000	3.5	6.927	326	359	439	477	493	510	547	585	655	716	807	870	910	952	972	986	990	996	4.921-04	4.678-04	
14000	4.0	9.001	323	355	429	457	471	483	515	544	600	653	742	810	859	920	951	974	984	995	4.940-04	4.692-04	
14000	4.5	11.489	320	353	417	442	454	464	489	512	556	602	681	748	801	876	920	954	972	992	4.954-04	4.702-04	
15000	2.0	1.673	449	477	564	675	722	759	832	882	939	964	984	992	995	998	998	998	998	1000	5.220-04	5.016-04	
15000	2.5	3.147	397	426	507	577	605	635	699	754	836	888	945	969	981	990	995	996	998	998	5.466-04	5.214-04	
15000	3.0	4.657	375	404	480	530	553	574	623	670	743	809	890	932	957	978	987	993	995	998	5.548-04	5.274-04	
15000	3.5	6.328	365	394	465	501	519	536	574	611	679	739	827	885	920	958	975	987	992	998	5.580-04	5.294-04	
15000	4.0	8.274	358	388	452	481	496	509	539	568	626	678	765	829	873	928	957	977	986	995	5.598-04	5.305-04	
15000	4.5	10.580	356	385	442	465	477	489	513	536	582	626	704	768	820	888	928	960	975	993	5.613-04	5.316-04	
16000	2.0	1.315	510	533	602	719	771	809	875	917	958	977	990	995	996	998	998	998	1000	1000	5.842-04	5.607-04	
16000	2.5	2.777	444	465	532	605	637	664	728	782	859	907	954	975	984	992	995	998	998	998	6.161-04	5.865-04	
16000	3.0	4.235	416	439	504	553	577	597	646	693	771	829	902	942	963	981	989	995	996	998	6.244-04	5.922-04	
16000	3.5	5.832	403	426	487	524	542	557	597	634	702	759	842	896	928	963	978	989	992	998	6.268-04	5.933-04	
16000	4.0	7.664	393	417	474	503	518	530	562	591	647	699	782	842	885	935	961	980	987	996	6.280-04	5.939-04	
16000	4.5	9.818	388	413	462	487	500	510	535	559	605	647	725	786	835	899	935	964	978	993	6.293-04	5.948-04	
18000	3.0	3.506	468	487	544	597	621	643	693	739	812	864	925	955	972	986	992	995	996	998	7.744-04	7.319-04	
18000	3.5	4.973	451	471	524	562	582	599	638	675	739	795	870	917	943	972	984	992	995	998	7.743-04	7.301-04	
18000	4.0	6.638	436	458	509	541	556	570	600	631	685	734	812	867	905	949	969	984	990	996	7.732-04	7.285-04	
18000	4.5	8.578	429	451	497	524	536	547	574	597	641	684	757	815	859	916	948	972	983	995	7.734-04	7.281-04	
20000	3.0	2.941	501	518	577	637	661	684	734	777	844	890	943	966	978	989	993	996	998	998	9.414-04	8.868-04	
20000	3.5	4.290	477	496	553	599	617	635	673	710	774	824	893	931	955	978	986	992	995	998	9.367-04	8.804-04	
20000	4.0	5.793	465	484	538	574	589	603	635	664	717	765	838	888	922	958	975	986	992	998	9.324-04	8.755-04	
20000	4.5	7.562	454	474	524	556	570	580	606	629	673	714	785	839	879	929	957	977	986	995	9.295-04	8.723-04	
25000	3.5	3.097	532	542	585	649	681	701	745	780	838	879	931	958	974	986	992	995	998	998	1.431-03	1.336-03	
25000	4.0	4.367	512	524	565	617	641	660	696	728	780	824	885	925	949	974	984	992	995	998	1.406-03	1.311-03	
25000	4.5	5.799	496	510	548	591	612	629	661	689	736	775	839	885	916	952	972	984	990	996	1.390-03	1.296-03	
25000	5.0	7.482	483	497	532	568	588	603	634	658	699	734	795	841	878	925	952	974	984	995	1.382-03	1.288-03	
30000	3.5	1.909	615	628	661	719	759	782	824	858	905	935	967	981	989	995	996	998	998	998	2.158-03	2.008-03	
30000	4.0	3.266	562	574	606	653	684	704	745	778	832	871	922	952	967	984	990	995	996	998	2.069-03	1.919-03	
30000	4.5	4.578	542	553	582	620	643	661	699	730	780	821	879	917	940	967	981	989	993	998	2.012-03	1.864-03	
30000	5.0	6.045	528	539	565	596	615	631	666	693	739	777	835	876	908	946	966	981	989	996	1.981-03	1.835-03	
35000	3.5	.724	789	800	829	867	896	911	934	951	971	981	992	995	996	998	998	998	998	1000	2.807-03	2.618-03	
35000	4.0	1.840	684	695	719	757	785	803	835	864	905	932	964	980	986	993	995	998	998	998	2.880-03	2.671-03	
35000	4.5	3.076	643	652	673	704	727	742	771	798	841	876	922	949	966	983	989	995	996	998	2.847-03	2.633-03	
35000	5.0	4.367	621	632	649	675	693	704	731	756	797	829	879	914	937	966	980	989	993	998	2.800-03	2.586-03	
40000	4.5	1.762	751	760	778	806	826	838	861	879	908	931	960	975	984	992	995	998	998	998	3.496-03	3.236-03	
40000	5.0	2.677	724	733	746	771	786	797	818	836	867	891	928	952	966	983	989	995	996	998	3.531-03	3.263-03	
45000	4.5	1.400	786	795	812	838	856	867	887	902	928	946	969	981	987	993	996	998	998	1000	3.955-03	3.656-03	
45000	5.0	1.986	774	783	795	818	835	844	861	876	900	920	948	966	977	987	992	995	998	998	4.012-03	3.705-03	
50000	4.5	1.211	804	812	829	853	871	882	899	914	937	954	975	984	990	995	996	998	998	1000	4.424-03	4.086-03	
50000	5.0	1.754	791	798	810	833	850	859	876	888	911	929	954	971	980	989	993	996	998	998	4.461-03	4.116-03	

		RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 4862.7	
T EFF	LOG L	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
8000	2.0	9.534	112	142	248	336	365	390	442	487	564	629	731	807	861	925	955	977	986	995	1.270-04	1.237-04	
8000	2.5	11.767	112	145	253	330	356	378	426	467	535	591	682	751	806	882	925	958	975	992	1.263-04	1.232-04	
8000	3.0	13.651	116	152	262	329	353	374	417	455	518	570	653	717	768	842	891	935	960	989	1.246-04	1.218-04	
8000	3.5	15.665	123	160	272	330	353	374	416	451	510	557	637	696	743	815	864	914	943	983	1.222-04	1.198-04	
8000	4.0	17.127	131	171	282	335	358	378	419	451	507	553	628	684	728	797	846	896	928	977	1.192-04	1.174-04	
8000	4.5	18.129	144	185	295	340	365	384	423	457	510	556	626	679	722	788	833	884	917	969	1.158-04	1.145-04	
8500	2.0	7.416	134	165	271	358	384	407	461	507	591	666	783	858	905	952	972	986	992	996	1.502-04	1.458-04	
8500	2.5	10.466	131	165	271	345	368	387	432	471	542	602	701	778	838	908	945	971	983	995	1.512-04	1.466-04	
8500	3.0	13.143	136	169	275	337	358	377	416	451	510	562	649	717	774	856	905	948	967	990	1.511-04	1.466-04	
8500	3.5	15.776	131	171	279	333	353	371	407	439	493	539	617	679	730	809	864	917	948	984	1.497-04	1.456-04	
8500	4.0	18.157	137	179	287	333	352	368	403	432	483	525	597	653	702	775	830	888	923	977	1.472-04	1.436-04	
8500	4.5	20.041	142	190	295	336	355	371	404	432	480	521	588	641	687	757	809	865	903	966	1.437-04	1.408-04	
9000	2.0	6.396	168	200	297	387	414	439	497	550	646	730	842	905	939	969	983	990	995	998	1.722-04	1.670-04	
9000	2.5	8.917	163	195	291	364	387	407	452	493	567	634	745	824	878	935	963	981	989	996	1.747-04	1.690-04	
9000	3.0	11.661	166	198	291	353	374	391	429	462	522	577	670	745	806	885	928	961	977	993	1.755-04	1.697-04	
9000	3.5	14.671	160	198	294	346	365	381	413	444	494	542	620	687	742	826	882	931	957	989	1.753-04	1.697-04	
9000	4.0	17.759	152	198	298	342	361	375	406	432	477	518	588	647	696	777	835	894	931	980	1.739-04	1.687-04	
9000	4.5	20.560	155	203	304	342	359	374	403	428	468	506	568	623	669	742	798	861	902	969	1.716-04	1.668-04	
9500	2.0	5.288	203	232	326	423	454	481	545	605	708	788	885	931	957	980	987	993	995	998	1.942-04	1.882-04	
9500	2.5	7.601	192	222	314	390	413	433	480	524	606	678	792	864	908	954	972	986	992	998	1.980-04	1.912-04	
9500	3.0	10.208	192	222	310	372	393	410	448	483	545	603	704	783	841	911	946	972	983	995	1.995-04	1.924-04	
9500	3.5	13.251	187	222	310	362	381	396	428	457	509	554	638	707	766	853	905	946	967	990	2.000-04	1.928-04	
9500	4.0	16.643	173	216	310	355	371	385	414	439	483	522	594	653	705	792	850	910	943	984	1.996-04	1.927-04	
9500	4.5	20.050	173	219	314	352	368	381	409	430	470	504	565	618	664	743	803	867	910	972	1.981-04	1.916-04	
10000	2.0	4.573	230	260	358	460	493	521	588	650	753	824	908	946	966	984	990	995	996	998	2.170-04	2.101-04	
10000	2.5	6.608	219	250	342	419	442	464	513	560	647	722	829	891	928	963	980	989	993	998	2.216-04	2.137-04	
10000	3.0	8.971	214	245	333	397	416	432	471	507	574	637	742	818	871	931	958	978	986	995	2.235-04	2.153-04	
10000	3.5	11.799	208	243	330	384	400	414	445	474	527	576	666	739	800	879	925	958	975	992	2.244-04	2.159-04	
10000	4.0	15.143	216	246	330	374	386	401	429	454	496	536	609	673	728	815	873	925	954	986	2.246-04	2.162-04	
10000	4.5	18.654	197	238	327	367	381	394	419	439	477	512	573	626	675	754	818	881	922	977	2.240-04	2.158-04	
11000	2.0	3.663	282	319	416	518	556	586	658	717	809	870	934	963	977	989	993	996	998	998	2.644-04	2.556-04	
11000	2.5	5.394	265	298	391	471	496	518	571	623	710	780	870	920	948	975	984	992	995	998	2.705-04	2.604-04	
11000	3.0	7.348	256	289	380	442	461	477	518	559	632	698	797	864	905	951	971	984	990	996	2.732-04	2.624-04	
11000	3.5	9.684	248	285	372	423	439	452	484	515	574	629	722	795	847	913	946	972	983	995	2.742-04	2.631-04	
11000	4.0	12.507	246	282	368	412	425	436	462	487	533	577	657	725	780	861	910	949	969	992	2.746-04	2.633-04	
11000	4.5	15.939	241	279	365	401	413	425	446	467	504	539	603	663	714	798	858	914	946	984	2.748-04	2.636-04	
12000	2.0	3.035	335	365	455	568	612	643	710	766	849	899	951	972	983	992	995	996	998	998	3.136-04	3.025-04	
12000	2.5	4.593	314	345	429	515	545	568	623	672	754	817	896	937	958	980	989	993	995	998	3.214-04	3.087-04	
12000	3.0	6.315	304	333	414	484	506	524	567	606	676	740	832	888	923	960	977	987	992	998	3.246-04	3.111-04	
12000	3.5	8.317	294	326	407	464	480	494	526	560	620	675	765	830	876	931	958	978	986	995	3.259-04	3.119-04	
12000	4.0	10.719	287	321	403	448	462	474	501	527	576	620	702	768	818	888	929	960	977	993	3.263-04	3.122-04	
12000	4.5	13.039	284	317	398	436	449	460	481	503	542	577	646	705	757	835	888	934	958	989	3.265-04	3.123-04	
13000	2.0	2.563	371	401	492	609	657	687	751	804	878	920	963	980	986	993	996	998	998	998	3.640-04	3.505-04	
13000	2.5	4.013	346	375	461	556	586	609	661	708	786	844	913	949	966	984	990	995	996	998	3.735-04	3.580-04	
13000	3.0	5.581	336	364	445	524	547	565	605	643	713	771	853	905	935	966	981	989	993	998	3.772-04	3.607-04	
13000	3.5	7.377	330	358	438	503	519	535	568	597	655	707	792	852	894	942	964	981	989	996	3.785-04	3.616-04	
13000	4.0	9.502	323	353	432	466	501	513	539	565	611	657	734	795	844	905	940	967	981	995	3.791-04	3.619-04	
13000	4.5	12.081	320	351	428	471	486	496	518	539	577	612	679	739	786	859	905	946	966	990	3.793-04	3.620-04	
14000	2.0	2.155	417	442	527	641	695	724	788	838	903	940	972	984	990	995	996	998	998	1000	4.161-04	4.000-04	

		H(BETA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 4862.7	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
14000	2.5	3.557	384	407	492	585	617	640	692	736	812	864	926	957	972	986	992	995	998	998	4.274-04	4.088-04	
14000	3.0	5.018	368	393	476	553	577	594	634	672	739	794	873	917	946	972	984	992	995	998	4.310-04	4.114-04	
14000	3.5	6.683	362	385	467	533	556	564	596	626	682	734	812	870	907	949	969	984	990	996	4.322-04	4.120-04	
14000	4.0	8.618	358	382	461	516	532	542	568	592	638	682	757	815	861	917	949	972	983	995	4.326-04	4.122-04	
14000	4.5	10.959	355	381	455	503	515	525	547	567	603	640	705	762	809	875	917	952	971	992	4.330-04	4.124-04	
15000	2.0	1.773	481	500	567	670	731	760	824	870	926	955	981	989	993	996	998	998	998	1000	4.700-04	4.512-04	
15000	2.5	3.156	432	451	521	609	643	666	716	762	833	882	939	964	978	989	993	996	998	998	4.836-04	4.618-04	
15000	3.0	4.552	410	432	503	577	602	617	658	695	760	814	887	928	952	977	986	992	995	998	4.868-04	4.638-04	
15000	3.5	6.699	400	423	493	556	574	588	620	649	704	754	832	884	917	955	974	986	992	998	4.874-04	4.638-04	
15000	4.0	7.907	396	417	487	539	554	565	591	615	661	704	777	833	873	925	954	975	984	995	4.876-04	4.637-04	
15000	4.5	10.663	391	414	481	525	539	548	570	589	626	663	727	782	826	888	925	957	975	992	4.880-04	4.639-04	
16000	2.0	1.414	542	556	609	701	771	803	861	903	949	969	986	992	995	998	998	998	998	1000	5.245-04	5.031-04	
16000	2.5	2.794	481	497	550	629	667	690	742	786	855	899	949	971	981	990	995	996	998	998	5.425-04	5.173-04	
16000	3.0	4.139	457	473	527	596	621	638	678	716	780	832	899	937	958	980	987	993	995	998	5.451-04	5.183-04	
16000	3.5	5.612	442	460	515	574	594	606	638	669	725	772	846	894	926	960	977	987	992	998	5.447-04	5.173-04	
16000	4.0	7.309	432	451	507	557	574	585	611	635	681	724	794	847	885	934	960	978	986	995	5.442-04	5.166-04	
16000	4.5	9.325	426	446	501	545	557	568	589	609	646	681	745	797	839	899	934	963	978	993	5.444-04	5.166-04	
18000	3.0	3.431	507	519	565	629	661	678	719	756	818	862	922	952	969	984	990	995	996	998	6.700-04	6.351-04	
18000	3.5	4.780	490	504	551	606	629	643	675	705	760	804	871	914	942	969	981	990	995	998	6.666-04	6.311-04	
18000	4.0	6.322	476	490	541	591	608	620	646	670	716	756	821	870	905	946	967	983	989	996	6.638-04	6.282-04	
18000	4.5	8.125	468	483	533	577	591	602	623	643	681	714	775	824	862	916	946	969	981	995	6.629-04	6.269-04	
20000	3.0	2.892	536	547	589	660	696	713	754	789	847	888	940	963	977	989	993	996	998	998	8.080-04	7.639-04	
20000	3.5	4.128	515	527	573	635	661	675	707	736	789	832	893	929	952	975	986	992	995	998	7.997-04	7.551-04	
20000	4.0	5.513	503	515	562	617	638	649	675	699	743	783	846	890	922	957	974	986	992	998	7.940-04	7.492-04	
20000	4.5	7.155	490	504	551	603	620	631	652	672	708	742	800	847	882	928	954	975	984	995	7.903-04	7.454-04	
25000	3.5	3.012	564	571	599	660	707	728	765	795	846	882	931	957	972	986	992	995	996	998	1.202-03	1.128-03	
25000	4.0	4.175	545	553	582	640	675	693	725	753	797	835	890	925	948	972	984	992	995	998	1.177-03	1.104-03	
25000	4.5	5.493	530	541	570	621	650	667	696	721	760	795	849	888	917	952	971	984	990	996	1.162-03	1.090-03	
25000	5.0	7.051	518	527	556	603	628	643	670	693	730	760	812	852	884	926	952	972	984	995	1.154-03	1.082-03	
30000	3.5	1.927	629	638	666	713	766	792	832	861	903	932	964	980	986	993	996	998	998	998	1.797-03	1.681-03	
30000	4.0	3.179	585	594	620	664	707	727	763	794	841	876	922	951	966	983	989	995	996	998	1.710-03	1.597-03	
30000	4.5	4.383	568	576	600	641	673	690	725	751	797	832	884	917	940	967	981	989	993	998	1.659-03	1.548-03	
30000	5.0	5.742	556	564	588	625	649	664	695	719	762	794	846	884	911	946	966	981	989	996	1.632-03	1.523-03	
35000	3.5	.762	780	791	815	852	888	911	934	949	969	980	990	995	996	998	998	998	1000	1000	2.350-03	2.203-03	
35000	4.0	1.842	690	699	722	757	792	815	844	868	905	931	963	978	986	992	995	998	998	998	2.378-03	2.220-03	
35000	4.5	2.993	657	664	685	717	746	763	791	814	852	881	922	949	964	981	989	995	996	998	2.335-03	2.174-03	
35000	5.0	4.178	640	647	667	696	719	733	757	777	812	841	885	917	939	966	978	989	992	998	2.289-03	2.130-03	
40000	4.5	1.703	750	757	778	809	835	852	873	888	914	934	960	975	983	992	995	996	998	998	2.873-03	2.677-03	
40000	5.0	2.564	727	734	753	780	803	815	835	850	878	899	931	952	966	981	989	995	996	998	2.890-03	2.690-03	
45000	4.5	1.345	782	789	809	836	864	879	897	911	932	949	969	981	987	993	996	998	998	1000	3.242-03	3.019-03	
45000	5.0	1.871	771	778	795	823	846	859	876	890	910	926	952	966	977	987	992	995	998	998	3.280-03	3.052-03	
50000	4.5	1.171	797	803	821	850	876	891	908	922	942	955	975	984	989	995	996	998	998	1000	3.618-03	3.366-03	
50000	5.0	1.649	786	792	809	835	858	871	888	900	920	935	957	972	981	989	993	996	998	998	3.638-03	3.382-03	

		H(AlphA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 6564.7	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
8000	2.0	8.039	160	200	285	400	480	507	556	596	660	711	789	844	885	932	957	977	986	995	1.021-04	9.960-05	
8000	2.5	9.054	147	190	287	406	480	506	553	589	649	696	768	821	861	913	943	967	980	993	1.026-04	1.002-04	
8000	3.0	10.100	147	190	291	413	481	506	550	585	640	684	753	803	841	894	928	957	972	992	1.028-04	1.006-04	
8000	3.5	11.126	152	197	300	422	483	507	550	582	634	675	739	789	826	878	913	945	963	989	1.028-04	1.008-04	
8000	4.0	12.091	163	208	310	432	487	510	550	580	631	670	731	777	812	864	899	934	954	986	1.025-04	1.006-04	
8000	4.5	12.927	179	222	324	444	492	513	550	582	628	667	725	768	803	853	888	923	946	981	1.018-04	1.001-04	
8500	2.0	7.191	203	237	313	429	509	533	577	614	675	727	807	864	902	946	967	981	989	996	1.171-04	1.139-04	
8500	2.5	8.420	184	222	310	429	504	527	568	602	658	704	777	830	871	922	952	972	984	995	1.178-04	1.147-04	
8500	3.0	9.804	187	227	316	433	501	522	562	591	643	684	751	803	841	896	931	960	975	992	1.185-04	1.155-04	
8500	3.5	11.289	168	206	314	439	500	518	554	583	631	669	731	778	817	873	910	943	963	989	1.190-04	1.160-04	
8500	4.0	12.742	171	211	320	444	496	515	550	577	620	657	714	760	797	852	890	928	951	984	1.191-04	1.163-04	
8500	4.5	14.063	174	209	327	451	496	515	547	574	614	649	702	746	782	835	873	913	939	978	1.187-04	1.162-04	
9000	2.0	6.188	253	281	352	458	533	557	602	638	702	756	838	890	925	960	975	986	992	998	1.325-04	1.286-04	
9000	2.5	7.521	232	266	348	454	525	547	586	618	673	721	795	850	890	937	961	980	987	995	1.330-04	1.290-04	
9000	3.0	8.993	243	275	352	455	522	542	577	606	655	696	763	814	855	910	942	966	980	993	1.337-04	1.298-04	
9000	3.5	10.730	214	250	348	457	518	536	568	594	638	675	734	783	821	879	916	949	967	990	1.344-04	1.306-04	
9000	4.0	12.581	198	227	339	458	513	530	562	585	625	658	713	757	794	850	890	928	952	986	1.348-04	1.311-04	
9000	4.5	14.368	200	227	342	462	510	527	556	579	615	646	696	737	772	827	867	908	937	978	1.350-04	1.316-04	
9500	2.0	5.284	294	320	384	484	565	589	632	670	734	789	867	914	943	969	981	989	993	998	1.483-04	1.438-04	
9500	2.5	6.602	275	304	378	477	550	571	609	641	696	743	821	875	911	951	971	984	990	996	1.484-04	1.437-04	
9500	3.0	8.074	278	307	378	476	542	562	596	623	670	711	780	832	873	925	952	974	984	995	1.488-04	1.442-04	
9500	3.5	9.873	259	286	374	476	536	553	585	609	652	685	745	795	833	890	926	957	974	992	1.494-04	1.448-04	
9500	4.0	11.942	238	260	361	474	530	545	574	597	635	666	719	763	800	856	896	935	957	987	1.500-04	1.455-04	
9500	4.5	14.053	240	259	359	476	524	541	568	588	623	650	698	739	771	827	868	911	939	981	1.504-04	1.461-04	
10000	2.0	4.613	330	352	410	510	596	621	663	699	765	818	890	931	954	975	986	992	995	998	1.646-04	1.594-04	
10000	2.5	5.816	314	339	403	501	577	599	635	666	721	769	844	894	926	960	977	987	992	998	1.645-04	1.592-04	
10000	3.0	7.226	307	330	400	496	565	585	615	641	689	730	800	853	891	937	961	980	987	996	1.645-04	1.591-04	
10000	3.5	8.946	294	317	396	494	557	574	603	626	666	701	762	810	850	905	939	966	978	993	1.647-04	1.594-04	
10000	4.0	10.991	311	333	400	493	550	565	591	612	647	678	730	774	812	868	908	945	964	989	1.652-04	1.599-04	
10000	4.5	13.323	285	298	382	492	542	556	582	600	632	660	705	745	780	833	876	917	945	983	1.657-04	1.605-04	
11000	2.0	3.703	375	394	458	557	640	669	711	748	812	859	920	951	967	984	989	995	996	998	1.976-04	1.911-04	
11000	2.5	4.757	358	380	445	544	617	640	675	707	763	812	879	922	946	972	984	990	995	998	1.976-04	1.908-04	
11000	3.0	5.953	346	369	438	536	603	623	652	678	725	768	838	887	919	955	972	986	990	998	1.972-04	1.904-04	
11000	3.5	7.424	340	361	433	532	594	609	634	655	696	733	795	846	882	931	957	975	986	995	1.967-04	1.899-04	
11000	4.0	9.243	343	359	430	530	585	599	620	640	673	704	757	803	841	896	931	960	975	992	1.966-04	1.898-04	
11000	4.5	11.483	346	356	425	527	577	588	609	626	655	681	727	766	801	858	897	937	958	987	1.968-04	1.900-04	
12000	2.0	3.065	423	442	499	585	672	710	753	789	847	888	939	963	975	987	992	995	998	998	2.310-04	2.231-04	
12000	2.5	4.017	409	429	484	568	649	678	713	745	800	842	903	937	958	978	987	992	995	998	2.312-04	2.230-04	
12000	3.0	5.067	397	417	477	562	634	657	687	713	760	801	865	908	934	964	978	989	992	998	2.307-04	2.223-04	
12000	3.5	6.334	385	406	470	556	623	640	667	689	728	765	826	871	905	945	966	981	989	996	2.300-04	2.216-04	
12000	4.0	7.888	384	400	464	554	614	629	652	670	704	734	789	833	867	917	946	969	981	995	2.295-04	2.211-04	
12000	4.5	9.621	388	400	461	553	606	618	638	655	682	708	754	795	829	882	917	951	969	990	2.291-04	2.208-04	
13000	2.0	2.610	465	478	524	608	699	742	785	818	873	910	952	972	981	990	995	996	998	998	2.644-04	2.551-04	
13000	2.5	3.495	448	461	507	588	675	710	745	774	826	865	919	949	966	983	989	995	996	998	2.647-04	2.550-04	
13000	3.0	4.444	441	455	500	580	661	689	717	742	788	827	884	922	946	971	983	990	995	998	2.641-04	2.542-04	
13000	3.5	5.567	432	448	496	577	649	672	698	719	757	792	847	888	919	954	972	984	990	998	2.632-04	2.533-04	
13000	4.0	6.936	426	439	492	574	640	658	681	699	733	762	812	853	887	931	954	975	984	995	2.626-04	2.526-04	
13000	4.5	8.636	428	439	490	574	632	647	667	684	710	736	780	818	850	899	931	960	975	992	2.621-04	2.521-04	
14000	2.0	2.234	521	528	559	632	719	768	809	842	893	926	961	978	986	992	995	998	998	998	2.986-04	2.877-04	

		H (ALPHA) RESIDUAL FLUX(X1000) VS. DELTA LAMBDA IN ANGSTROMS																				LAMBDA = 6564.7	
T EFF	LOG G	WIDTH (A)	0.0	.2	.4	.6	.8	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	14.0	18.0	24.0	30.0	50.0	FNU(-100)	FNU(+100)	
14000	2.5	3.099	493	501	533	611	695	733	766	795	844	882	931	957	972	986	992	995	996	998	2.987-04	2.873-04	
14000	3.0	3.987	480	490	524	600	681	711	739	763	806	844	897	931	954	975	986	992	995	998	2.975-04	2.860-04	
14000	3.5	5.019	474	483	519	596	672	696	719	740	777	809	862	902	928	960	975	986	992	998	2.964-04	2.847-04	
14000	4.0	6.262	467	476	516	594	664	684	704	722	753	780	829	868	899	939	960	978	986	996	2.955-04	2.839-04	
14000	4.5	7.805	464	474	515	592	655	672	690	705	731	754	797	835	865	911	940	964	978	993	2.949-04	2.834-04	
15000	2.0	1.881	585	591	612	664	739	789	832	864	911	942	971	984	989	995	996	998	998	1000	3.340-04	3.215-04	
15000	2.5	2.758	545	551	576	635	710	751	785	812	859	896	940	963	977	987	992	995	998	998	3.335-04	3.205-04	
15000	3.0	3.610	527	533	559	623	696	730	757	780	821	856	908	940	960	978	987	993	995	998	3.316-04	3.183-04	
15000	3.5	4.571	516	524	553	617	687	713	736	757	792	824	876	911	937	964	978	989	992	998	3.299-04	3.166-04	
15000	4.0	5.725	509	516	548	614	679	699	721	737	768	795	844	881	908	946	966	981	989	996	3.288-04	3.155-04	
15000	4.5	7.143	503	512	545	614	672	689	707	722	746	771	812	849	878	920	946	969	981	995	3.281-04	3.148-04	
16000	2.0	1.550	635	641	660	701	757	810	856	888	931	955	978	987	992	995	998	998	998	1000	3.702-04	3.561-04	
16000	2.5	2.451	592	597	617	661	722	765	800	827	875	908	949	969	981	989	995	996	998	998	3.698-04	3.549-04	
16000	3.0	3.280	571	577	599	646	708	743	771	794	835	870	917	948	964	981	989	995	996	998	3.667-04	3.516-04	
16000	3.5	4.195	557	565	588	638	695	728	750	769	806	836	885	920	943	969	981	989	993	998	3.641-04	3.490-04	
16000	4.0	5.276	547	553	579	634	692	713	734	751	780	809	855	890	917	952	969	984	989	996	3.624-04	3.474-04	
16000	4.5	6.604	539	547	576	631	684	702	719	734	760	783	826	859	888	928	952	972	984	995	3.616-04	3.466-04	
18000	3.0	2.738	614	620	637	673	728	768	797	820	861	891	935	960	972	986	992	995	998	998	4.410-04	4.221-04	
18000	3.5	3.576	600	606	623	664	719	751	774	794	829	859	905	934	954	975	986	992	995	998	4.358-04	4.170-04	
18000	4.0	4.563	586	592	611	655	710	736	757	774	804	830	875	908	931	960	975	986	992	998	4.325-04	4.138-04	
18000	4.5	5.749	579	585	606	650	702	725	742	757	783	806	846	879	903	940	960	978	986	995	4.308-04	4.121-04	
20000	3.0	2.345	632	638	653	684	740	788	820	842	881	910	949	969	980	989	993	996	998	998	5.219-04	4.987-04	
20000	3.5	3.111	617	623	638	672	731	769	795	815	850	878	920	946	963	981	989	993	996	998	5.128-04	4.899-04	
20000	4.0	4.000	608	612	629	664	722	756	777	795	824	850	890	920	943	967	981	989	993	998	5.073-04	4.846-04	
20000	4.5	5.081	596	600	618	657	713	742	763	777	803	824	862	893	917	949	967	981	989	996	5.039-04	4.812-04	
25000	3.5	2.393	640	646	663	685	722	777	824	847	884	911	946	966	977	989	993	996	998	998	7.407-04	7.049-04	
25000	4.0	3.144	629	634	649	673	711	762	800	821	855	881	919	945	960	978	987	993	995	998	7.226-04	6.876-04	
25000	4.5	4.029	617	623	638	663	704	745	780	800	829	855	893	920	940	966	978	989	992	998	7.122-04	6.778-04	
25000	5.0	5.095	605	609	626	652	693	728	759	778	807	832	867	896	917	949	966	981	989	996	7.063-04	6.722-04	
30000	3.5	1.713	675	681	696	719	753	795	861	885	919	942	969	981	987	993	996	998	998	1000	1.080-03	1.025-03	
30000	4.0	2.555	649	653	667	690	722	765	817	841	876	903	940	960	974	986	992	995	998	998	1.016-03	9.638-04	
30000	4.5	3.375	637	641	655	678	710	748	789	812	847	873	913	939	955	975	986	992	995	998	9.831-04	9.325-04	
30000	5.0	4.325	628	632	646	669	701	734	768	788	821	847	887	914	934	960	975	986	992	998	9.657-04	9.161-04	
35000	3.5	.804	774	780	795	820	850	882	939	952	969	980	989	995	996	998	998	998	1000	1000	1.429-03	1.357-03	
35000	4.0	1.638	713	719	734	757	786	818	875	893	920	940	966	980	986	993	995	998	998	1000	1.405-03	1.331-03	
35000	4.5	2.413	698	702	716	737	763	795	839	858	885	908	940	960	972	984	992	995	996	998	1.361-03	1.288-03	
35000	5.0	3.218	687	693	705	727	753	780	817	832	859	881	914	937	954	974	984	992	995	998	1.328-03	1.257-03	
40000	4.5	1.444	754	760	774	797	826	855	900	914	934	948	967	980	986	992	995	998	998	1000	1.686-03	1.596-03	
40000	5.0	2.072	742	746	760	783	809	835	875	888	907	922	946	963	974	986	992	995	998	998	1.681-03	1.591-03	
45000	4.5	1.156	777	783	795	818	844	871	920	932	949	960	977	984	989	995	996	998	998	1000	1.895-03	1.793-03	
45000	5.0	1.516	772	777	789	810	836	864	905	917	934	946	963	975	983	990	995	996	998	1000	1.907-03	1.805-03	
50000	4.5	1.028	791	795	806	826	850	878	928	940	954	966	980	987	992	995	998	998	998	1000	2.102-03	1.989-03	
50000	5.0	1.344	786	789	800	818	842	870	914	926	940	952	969	978	986	992	995	998	998	1000	2.103-03	1.989-03	

## Planck Curves

According to our definitions in Section 4.3, the flux that originates from a region in the atmosphere having the temperature  $T$  is given by  $F_\lambda \sim B_\lambda(T)$  or  $F_\nu \sim B_\nu(T)$ , in the case of pure absorption, where  $B$  is the Planck function. Also, the integrated flux is equal to the integrated Planck function for the given effective temperature. On the following pages are two graphs that can be detached and used as overlays for comparison with our flux graphs. One of the attached graphs shows  $\log B_\lambda$  and the corresponding  $M_\lambda$  plotted against  $\lambda$  for a range of temperature values; the other shows  $\log B_\nu$  and the corresponding  $M_\nu$  plotted against  $1/\lambda$ . The  $M_\lambda$ ,  $M_\nu$ , and  $\lambda$  scales are in centimeters (and each  $1/\lambda$  unit is 1.25 cm).

